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PERSONAL.

Mr. Charles T. Hayden has been appointed Superintendent of the Water Department of Utica, N. Y.

Mr. O. H. Baldwin, managing director of the British Westinghouse Electric & Mfg. Co., is now on a visit to New York city.

Mr. Charles Davis, M. Am. Soc. C. E., has been appointed County Engineer for Allegheny County, Pa., for a term of three years.

Mr. R. H. Aishton has been promoted from Division Superintendent to be General Superintendent of the Chicago & Northwestern Ry.

Mr. H. C. Kellogg, of Anaheim, Cal., is reported to be about to go to Honolulu, H. I., to act as a consulting engineer in the construction of an irrigation reservoir and dam.

Mr. R. B. Dodson, of Fahnestock & Co., bankers, has been elected President of the Wabash Water Co., and Mr. C. D. Backus, Assistant Cashier of the First National Bank, of New York city, has been elected Treasurer.

Mr. Hiram J. Slifer, Engineer of Second Track of the Chicago & Northwestern Ry., at Boone, Ia., has been appointed Superintendent of the Iowa Division, succeeding Mr. R. H. Aishton has been promoted from Division Superintendent.

Mr. Preston Bowles, who has been for the past six months at Little Rock, Ark., with the Choctaw & Memphis R. R. Co., has been advanced and placed in charge of important railway work being carried on by that company in Oklahoma Territory.

Mr. Sherburn Sanborn, General Superintendent of the Chicago & Northwestern Ry., has been appointed Assistant General Manager, with Mr. John M. Whitman, who has been made Fourth Vice-President in addition to his duties as General Manager.

Mr. C. B. Cutler, a member of the firm of Samuel Cutler & Sons, of Millwall, London, has returned to England after a visit of two months to the United States. While in this country he placed a large number of contracts, mostly for boiler makers' tools.

Mr. W. M. Reed, of Roswell, N. M., has been employed by the Rio Grande Dam & Irrigation Co. as consulting engineer in connection with the suit of the United States against that company enjoining it from building the Elephant Butte Dam and reservoir above San Marcial, N. M.

Capt. K. S. Michaels, U. S. V., is about to sail for Manila, via San Francisco, to report to Gen. Otis for duty in rebuilding the railway in Luzon, now in the hands of the War Department. Capt. Michaels was Master of Railroad Transportation at Tampa during the Spanish-American war.

Mr. Frank Aiken, who recently severed his connection with the Baltimore & Ohio Southwestern R. R., has been appointed Superintendent of the Columbus, Sandusky & Hocking R. R. shop, succeeding Mr. J. S. Mackenzie, who becomes assistant master mechanic of the New York, Chicago & St. Louis R. R.

Col. Ivanhoff and Mr. A. Knapp, of St. Petersburg, Russia, are at present visiting America. The reported object of their visit is the placing of large orders for the Trans-Siberian and Imperial Russian railways. It is also understood that these gentlemen will contract for a number of locomotives before leaving the country.

Messrs. Rudolph Hering, M. Am. Soc. C. E., of New York city, and Howard A. Carson, M. Am. Soc. C. E., of Boston, Mass., have been appointed as consulting engineers to examine and report to the city of Cleveland, O., and to the Board of Park Commissioners of that city, regarding the building of an intercepting sewer in Doan Brook valley.

OBITUARY.

Mr. George A. Ross, of the engineering staff of the Santa Fe Pacific R. R., died recently at Williams, Cal.

Mr. Richard Dooley, formerly a prominent railway contractor, died Nov. 28 at his home in New Rochelle, N. Y.

Mr. Alexander M. Guthrie, formerly a prominent Pittsburg crucible manufacturer, died recently in New York city.

Mr. Harry Grant Chiswell, Superintendent of the Pittsburg Plate Glass Co., died Nov. 26 at his home in Pittsburg.

Mr. Ferd. Hall, Chief Engineer of the Chicago, Indianapolis & Louisville Ry., died Nov. 23 at his home in Chicago.

Mr. Charles Potter, Jr., President of the Potter Printing Press Mfg. Co., of Plainfield, N. J., died at his home in that city on Dec. 2.

Mr. John H. Vandeveer, Superintendent of the Brooklyn Rapid Transit Co.'s car shops, died Dec. 3 at his home in Brooklyn, N. Y.

Mr. John I. Blair, a prominent railway director and bank president, died Dec. 2 at his home in Blairstown, N. J., at the age of 97. He was the senior member of the Wall St. banking firm of Blair & Co., and a director of 24 railways.

Mr. Harry L. Tanner, Assistant to the Resident Engineer in New York city of the Westinghouse Electric & Mfg. Co., died suddenly of typhoid pneumonia on Dec. 4. Mr. Tanner was a graduate of the University of Minnesota of the class of 1895.

Mr. J. S. Burlingame, a civil engineer of Kansas City, Mo., died on Nov. 28, at Wortham, Texas. Mr. Burlingame was born in Elmira, N. Y., 61 years ago, and served as chief of engineers under General Grant at the siege of Vicksburg. He has done much municipal and railway engineering work in the West.

Mr. Frank B. Clark, C. E., of Fulton, N. Y., and Mr. O. C. Mimmack, C. E., of Washington, D. C., and two laborers were drowned Oct. 29, as was reported some time ago, by their boat striking a rock and upsetting in Manchuca Rapids, San Juan River, Nicaragua. Mr. Clark was Chief of Party No. 2, Division L, Isthmian Canal Commission, and Mr. Mimmack was a member of the same party.

Mr. Richard Osborne, Member of the Institute of Civil Engineers of Ireland, died on Nov. 28 at Glenside, Pa. Mr. Osborne was born in London, Eng., in 1815, and came to Canada in 1834. He entered the service of the Philadelphia & Reading R. R. in 1836 and later became chief engineer. He served in this capacity for other roads, including the Waterford & Limerick Ry., of Ireland. In 1852 he took charge of the surveys and construction of the Camden & Atlantic R. R. and the laying out of Atlantic City.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 5 to 8. Annual meeting at New York. Secy., F. R. Hutton, 12 West 31st St., New York city.

NEW JERSEY SANITARY ASSOCIATION.
Dec. 8 and 9. Annual meeting at Atlantic City, N. J. Secy., J. A. Exton, Arlington, N. J.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Dec. 13. Quarterly meeting at Boston, Mass. Secy., Willard Kent, Narragansett Pier, R. I.

MICHIGAN ENGINEERING SOCIETY.
Jan. 2, 1900. Annual meeting at Kalamazoo, Mich. Secy., F. Hodgman, Climax, Mich.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 17 and 18. Annual meeting at New York city. Secy., C. W. Hunt, 220 W. 57th St., New York city.

COMING LOCAL MEETINGS.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Dec. 12. Secy., W. H. Searles, Case Library Bldg., Cleveland, O.

DENVER SOCIETY OF CIVIL ENGINEERS.
Dec. 12. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

NEW ENGLAND RAILROAD CLUB.
Dec. 12. At Boston. Secy., Edw. L. Jones, P. O. Box 1158, Boston, Mass.

NORTHWEST RAILWAY CLUB.
Dec. 12. At Minneapolis. Secy., T. A. Fogue, Soo Line, Minneapolis, Minn.

CHICAGO ELECTRICAL ASSOCIATION.
Dec. 15. Secy., Cloyd Marshall, 1310 Monon Bldg., Chicago, Ill.

ENGINEERS' CLUB OF COLUMBUS.
Dec. 16. Secy., H. M. Gates, 12½ North High St., Columbus, O.

MONTANA SOCIETY OF CIVIL ENGINEERS.
Dec. 16. At Helena. Secy., Albert S. Hovey, Helena, Mont.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Dec. 19. At Pittsburg. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

WESTERN RAILWAY CLUB.
Dec. 19. At Chicago. Secy., J. W. Taylor, 667 The Rookery, Chicago, Ill.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Dec 20. Secy., S. E. Tinkham, City Hall, Boston, Mass.

ENGINEERS' CLUB OF ST. LOUIS.
Dec. 20. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.

MONTANA SOCIETY OF ENGINEERS.—A meeting of the society was held at Butte, Montana, on Nov. 11, 1899. The President appointed the Committee of Arrangements for the annual meeting, as follows, viz.: Wm. H. Williams and Clayton H. Thorpe, both of Bozeman, and Frank L. Sizer, of Helena. The next regular meeting of the society will be held at Butte, on Dec. 9. At this meeting arrangements for the annual meeting at Bozeman will be discussed. A. S. Hovey, Secy.

NEW ENGLAND WATER-WORKS ASSOCIATION.—The quarterly meeting of this association will be held at Tremont Temple, Boston, Mass., Dec. 13, 1899. The following papers will be presented:

"Discussion on the Methods of Removing Vegetable Organisms from Water in Syracuse," by Dr. Frederick S. Hollis, Biologist of the Metropolitan Water-Works. "Covered Reservoirs," Freeman C. Coffin, Boston, Mass. "A Rumpus in Collecting Meter Rates, Causes and Consequences," George F. Chace, Taunton, Mass. "The Glasgow Water-Works," James M. Gale, C. E., Engineer-in-Chief, Loch Katrine Water-Works, Glasgow, Scotland. Lantern slides are to be used in illustrating the papers. Secy., Willard Kent, Narragansett Pier, R. I.

NEW PUBLICATIONS.

WELLS AND WINDMILLS IN NEBRASKA.—By Erwin Hinckley Barbour, Water Supply and Irrigation Papers, U. S. Geological Survey, No. 29. Washington, D. C. Paper; 9 x 6 ins.; pp. 85; illustrated.

Prof. Barbour, who is acting State Geologist of Nebraska and professor of geology in the University of Nebraska, has been gathered together much material relating to the manufacture of home-made windmills, to be used in raising water for irrigation purposes. It is not to be supposed that mills thus made are as efficient as the windmills furnished by regular manufacturers; but as it is not always possible for the farmer to obtain shop-made machinery, this book is useful as showing him how he can make his own, and what results he can expect from a home-made machine that is properly designed and constructed. The list covers windmills of a number of types, known under the names of jumbo, merry-go-round, battle-ax, Dutch and turbine. To raise water sufficient for a house and some stock, these home-made windmills cost from $2 to $50 or $75, according to the demand for water, the old material that can be utilized and the ingenuity of the farmer. But Prof. Barbour says that $10 is a fair average. The text enters into the construction of these various mills, and notes their general efficiency. The University of Nebraska has issued the same material as Bulletin No. 59.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

GALVANIZED STEEL TANKS.—The American Steel Tank Co., Mishawaka, Ind. Paper folder; illustrated.

This folder briefly describes and illustrates steel tanks designed for divers purposes.

SPARKING POINTS FOR GAS ENGINES.—Baker & Co., Newark, N. J. Paper; 3 x 6 ins.; pp. 8; illustrated.

This booklet describes sparking tips for use in gas or gasoline engines, using electric ignition.

MINING MACHINERY.—The D. Clint Prescott Co., Menominee, Mich. Paper; 10x7 ins.; pp. 30; illustrated.

This catalogue describes the line of mine pumping and hoisting machinery and appliances manufactured by the company named.

RAILWAY GATES.—Bogue & Mills, Chicago, Ill. Paper; 6x9 ins.; pp. 24; illustrated.

This catalogue describes and illustrates quite fully the pneumatic railway crossing gate sold by the company named. There is a complete price list of repair parts.

RAILWAY CAR-SEATS.—Heywood Bros. & Wakefield Co., Wakefield, Mass. Paper; 10x7 ins., oblong; pp. 40; illustrated.

This pamphlet illustrates and describes the large variety of car-seats made by this company for use on steam and street cars.

AUTOMATIC ENGINES.—Racine Hardware Co., Racine, Wis. Paper; 6½x9 ins.; pp. 36; tables and illustrations.

Small engines and boilers of from 2 to 50 HP. and suited for marine and various other uses are described and illustrated in this book.

GAS ENGINES.—Paper; 6 x 3 ins.; illustrated.

This booklet describes the line of gas engines manufactured by the above company.

INCANDESCENT LAMPS.—Western Electric Co., Chicago, Ill. Paper; 7½ x 10½ ins.; pp. 18; illustrated.

The above pamphlet contains a brief account of the process of manufacture of incandescent lamps. Various types are described and illustrated. Lamps are made for voltages ranging from 52 to 250 volts.

STEAM PUMPING MACHINERY.—The Hill Machine Co., Anderson, Ind. Paper; 2½x6 ins.; pp. 20; illustrated.

This is a catalogue and price list of steam pumps for deep wells, which former are manufactured by the above company. The pumps are of the direct-acting type, the cylinder being placed vertically over the well.

LIGHT CARS.—Sheffield Car Co., Three Rivers, Mich. Pamphlet; 6x9 ins.; pp. 96; illustrated.

This is a descriptive catalogue of the numerous forms of hand, velocipede, inspection and other kinds of light cars made by the above-named company. Illustrations and prices are given.

DYNAMOS AND MOTORS.—Roth Bros. & Co., 88-92 W. Jackson St., Chicago, Ill. Paper; 6x9 ins.; pp. 8; illustrated.

Dynamos and motors of from 1 to 17 K-W. capacity are described in this catalogue. They are direct current machines specially designed for driving machinery in single units.

WATER MOTORS.—Chicago Water Motor & Fan Co., 171-173 Lake St., Chicago, Ill. Paper; 6 x 9 ins.; pp. 32; illustrated.

Small water motors of the impulse wheel type are here described. These motors are suitable for driving various kinds of light machinery, such as fans, printing presses, sewing machines, organ blowers, etc.

GAS ENGINES.—Paper; 7 x 9 ins.; pp., 33; illustrated.

This pamphlet describes the Backus gas engine, which is manufactured by the above company in sizes up to 65 HP. A special type of double cylinder engine is built for use in driving electric-light generators.

AUTOMATIC OILING SYSTEM.—Siegrist Lubricator Co., St. Louis, Mo. Paper; 10x12 ins.; pp. 32; illustrated.

This is a well-printed and illustrated description of a system of automatic lubrication for the bearings and steam cylinders of power plants. Small pipes lead from the oil mains, upon which a constant pressure is maintained by small steam pumps, to each bearing, and the oil once used is returned and filtered. In this way it is possible to effect a great economy in the oil consumed and at the same time use a liberal supply of oil on the bearings.

STEAM POWER APPARATUS.—Twin City Iron Works, Minneapolis, Minn. Paper; 9 × 6 ins.; pp. 40; illustrated.

This is catalogue "A" of the above company, describing Corliss engines, boilers, heaters, pumps and condensers manufactured by them. This company makes a specialty of installing power plants for flouring mills. Complete tables of dimensions and prices are given.

POWER TRANSMISSION MACHINERY.—Paper; 4½ × 6½ ins.; pp. 112; illustrated.

This is catalogue "C" of the same company. It gives full tables of dimensions and descriptions of the apparatus used for power transmission in mills, such as shafting, pillow-blocks, gears and pulleys for rope and belt drives.

OIL FILTERS.—The Famous Filter Co., 316 North Main St., St. Louis, Mo. Paper; 6½ × 6 ins.; pp. 13; illustrated.

Oil filters for refining and purifying waste oil are described in this pamphlet. Tables are given showing the dimensions and capacities of the various sizes, together with much information regarding the proper care of lubricants.

STEAM THRESHING MACHINERY.—The Heilman Machine Works, Evansville, Ind. Paper; 9 × 6 ins.; pp. 58; illustrated.

Grain separators, clover hullers, traction engines and various other apparatus used in connection with threshing machinery are described in this book. The above company also manufacture stationary engines and boilers and wood-sawing machinery.

AUTOMATIC WATER MOTOR PUMPS.—The Hill Machine Co., Anderson, Ind. Paper; 6×9 ins.; pp. 6; illustrated.

This leaflet describes automatic water-motor pump designed to supply cistern or other water under pressure to the house mains, using water from the city water mains as a source of power. A special type is manufactured, adapted for pumping from deep wells.

FEED-WATER HEATERS AND PURIFIERS.—Warren, Webster & Co., Camden, N. J. Paper; 6 × 9 ins.; pp. 100; illustrated.

This is a well-printed and illustrated book describing the feed-water heaters, and purifiers manufactured by the above company. The exhaust steam from the engine is used to heat the incoming feed water, which is handled in such a way as to allow impurities precipitated by the heat to settle in pans from which they can be easily removed from time to time.

LOW PRESSURE STEAM HEATING SYSTEM.—Paper; 6 × 9 ins.; pp. 52; illustrated.

This book describes the system of low pressure steam heating developed by the above company. Excellent views are given of many prominent buildings where the system is now in use.

SQUARE PISTON STEAM ENGINES.—Dake Engine Co., Grand Haven, Mich. Paper; 8×5½ ins.; pp. 16; illustrated.

The above pamphlet gives a description of the Dake square piston engine. In this engine, by an ingenious arrangement the piston rod and connecting rod are done away with, and the crank is contained within the piston itself, where the valve gear and valves are also located. In this manner a very light and compact machine is secured, well adapted for driving ventilating fans and hoists and for use in small boats. When the engine is applied to driving dynamos or other work requiring close regulation, a shaft governor is provided.

PROSPECTORS' ROCK DRILL.—Davis Calyx Drill Co., 100 Broadway, New York city. Paper; 6 × 9 ins.; pp. 40; illustrated.

This book describes the Davis drill, which can be used wherever it is desired to drill a hole in rock and preserve the core. A crown of teeth is set on the end of a hollow cylinder, which is slowly revolved while water is being forced under the teeth. The abraded particles are carried up by the water and deposited in a cup formed by an upward extension of the boring cylinder around the driving rod. Hard steel points can be used with this type of drill in all except the hardest rock. For the latter diamond points must be substituted.

FILING-CASES.—The Globe-Wernicke Co., 1224-1248 W. 8th St., Cincinnati, O. Paper; 6¾ × 3¾ ins.; pp. 12; illustrated.

While this little catalogue describes the "Elastic" system of office cabinets for filing documents, more fully illustrated in more voluminous catalogues, the form in which it comes is novel and well deserves notice. In the first place, the stiff paper back of the catalogue forms its own mailing cover, and is secured by a tuck and slit at one end; the address and stamp is put on the front cover. The stiff back of the book is double and folds in; and this fold forms a "private mailing card," with printed address and a place for the stamp and perforations for tearing off, and on the back of this card is a request to furnish a fuller catalogue, with room for the date and full address. The convenience of the device is the striking feature, both in forwarding to a prospective buyer, and in sending the request for fuller information.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Dec. 4.	Bridge cables,	New York, N. Y.	Nov. 16
	Advertised, Eng. News, Nov. 16 to 30.		
Dec. 8.	Water bonds ($20,000),	Ventura, Cal.	Nov. 23
Dec. 11.	City building,	Topeka, Kan.	Nov. 23
Dec. 11.	Buildings,	Liverpool, England.	Nov. 23
Dec. 11.	Lighting franchise,	Red Bank, N. J.	Nov. 30
Dec. 11.	Flume,	Fresno, Cal.	Dec. 7
Dec. 11.	Bridge electric equipment,	New York, N.Y.	Dec. 7
Dec. 11.	Ditching, etc., (10½ miles),	Galveston, Tex.	Dec. 7
Dec. 12.	Sweeping mchns.; can carriers,	New York.	Dec. 7
Dec. 12.	Castings and tools,	Washington, D. C.	Dec. 7
Dec. 12.	Street improvements,	Kansas City, Mo.	Dec. 7
Dec. 12.	Machinery and tools,	Boston, Mass.	Dec. 7
Dec. 12.	Water-works,	Byron, Ill.	Dec. 7
Dec. 12.	Bridge,	Pontiac, Ill.	Nov. 30
	Advertised, Eng. News, Nov. 30 and Dec. 7.		
Dec. 12.	Railway extension,	Kushequa, Pa.	Nov. 30
Dec. 12.	Breakwater,	New Haven, Conn.	Nov. 30
	Advertised, Eng. News, Nov. 30 and Dec. 7.		
Dec. 12.	Sewage pumping machinery,	London, Eng.	Nov. 30
Dec. 12.	Two buildings,	New Westminster, B. C.	Nov. 23
Dec. 12.	Sewers and water-works,	Ft. Mojave, Ariz.	Nov. 16
Dec. 12.	Auditorium,	Topeka, Kan.	Nov. 16
Dec. 12.	Garbage crematories,	Hackney, England.	Nov. 16
Dec. 13.	Bridge and canal work,	Albany, N. Y.	Dec. 7
	Advertised, Engineering News, Dec. 7.		
Dec. 13.	Hospital,	West Ham Union, England.	Dec. 7
Dec. 13.	Road (1½ miles),	Albany, N. Y.	Dec. 7
	Advertised, Engineering News, Dec. 7.		
Dec. 13.	Sewers,	New York, N. Y.	Dec. 7
Dec. 14.	Hotel building,	Gonzales, Tex.	Dec. 7
Dec. 14.	Water mains, castings, etc.,	New York.	Dec. 7
Dec. 14.	Paving,	Wilmette, Ill.	Dec. 7
Dec. 14.	Water pipe, castings, rings, etc.,	Chicago.	Dec. 7
Dec. 14.	Breakwater,	Sheboygan Harbor, Wis.	Nov. 16
	Advertised, Eng. News, Nov. 16 to Dec. 7.		
Dec. 14.	Bridges,	Wichita, Kan.	Nov. 23
Dec. 15.	Coal shaft,	Alderson, Ind. Ter.	Nov. 23
Dec. 15.	Cut stone,	Washington, D. C.	Nov. 23
	Advertised, Engineering News, Nov. 23.		
Dec 15.	Sewers (11 miles),	Martinsville, Ind.	Nov. 16
Dec. 15.	Dormitory,	Red Lake, Minn.	Nov. 30
Dec. 15.	Water-works,	Walker, Minn.	Nov. 30
Dec. 15.	Sewage disposal plant,	Alliance, O.	Dec. 7
Dec. 16.	Bridges,	Waycross, Ga.	Dec. 7
Dec. 16.	Bridge bonds,	Mansfield, O.	Dec. 7
Dec. 16.	Bridge,	Pine City, Minn.	Dec. 7
Dec. 16.	Lighting,	Milwaukee, Wis.	Nov. 30
	Advertised, Eng. News, Nov. 30 and Dec. 7.		
Dec. 16.	Army building,	Port Royal, S. C.	Nov. 30
Dec. 18.	Pipe sewers,	College Station, Tex.	Nov. 30
	Advertised, Engineering News, Nov. 30.		
Dec. 18.	Electric railway franchise,	Oakland, Cal.	Nov. 30
Dec. 18.	Artesian well,	Toledo, O.	Dec. 7
Dec. 18.	Gas plant franchise,	Covington, Ky.	Dec. 7
Dec. 18.	Electric plant,	London, England.	Dec. 7
Dec. 18.	Water pipe, valves, etc.,	Margate, England	Dec. 7
Dec. 19.	Altering court house,	Ventura, Cal.	Dec. 7
Dec. 19.	Water tanks, etc.,	Fort Greble, R. I.	Dec. 7
	Advertised, Eng. News, Dec. 7 and 14.		
Dec. 19.	Extending breakwater,	Port Elgin, Ont.	Dec. 7
Dec. 19.	Quays, etc.,	Alexandria, Egypt.	Sept. 14
Dec. 20.	Railway (29 miles),	England.	Nov. 23
Dec. 20.	Prison addition,	Mansfield, O.	Nov. 30
Dec. 20.	Fire hose,	New York, N. Y.	Dec. 7
Dec. 20.	Steel bridge,	Ozark, Ark.	Dec. 7
Dec. 20.	Water-works,	Kenney, Ill.	Dec. 7
Dec. 20.	Pumps, boilers, etc.,	Birmingham, Eng.	Dec. 7
Dec. 21.	Extending governm't bldg.,	Jackson, Miss.	Nov. 30
Dec. 21.	Pipe sewers,	Wichita, Kan.	Nov. 30
Dec. 21.	Pumping engine,	Martins Ferry, Ohio.	Nov. 30
Dec. 23.	Road,	San Juan, Porto Rico.	Oct. 26
	Advertised, Eng. News, Oct. 26 to Dec. 7.		
Dec. 23.	Steel wharf,	Port Royal, S. C.	Nov. 30
Dec. 23.	Electric lighting,	Council Bluffs, Ia.	Dec. 7
Dec. 24.	Chapel,	Danville, Ill.	Nov. 30
Dec. 26.	Road bonds,	West Hoboken, N. J.	Nov. 30
Dec. 26.	St. railway franchise,	San Diego, Cal.	Nov. 30
Dec. 26.	Channel work,	Oakland Harbor, Cal.	Nov. 9
Dec. 28.	Constructing sill,	New Orleans, La.	Nov. 30
Dec. 28.	Hydraulic dredge,	New Orleans, La.	Nov. 30
Dec. 28.	Electric plant,	Gloucester, Eng.	Dec. 7
Dec. 29.	Paving,	Cincinnati, O.	Dec. 7
Dec. 30.	Pier extension,	St. Joseph, Mo.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 28.		
Dec. 30.	Bridge,	Denver, Colo.	Dec. 7
Dec. 30.	Tunnels (2),	West Virginia.	Dec. 7
	Advertised, Engineering News, Dec. 7.		
Dec. 30.	Canal (9 miles),	Ottawa, Ont.	Dec. 7
Dec. 30.	Water-works,	Elkins, W. Va.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Dec. 30.	Aqueduct,	Panama, Colombia.	Oct. 26
Dec. 30.	Water-works,	Panama, Colombia.	Nov. 23
Dec. 31.	Mistrettra,	Italy.	Nov. 23
Dec. 31.	Electric lighting,	Porto Alegre, Brazil.	Oct. 26
Jan. 1.	Water supply and plans,	Levis, Que.	Nov. 9
Jan. 1.	W.-wks & elec. l't plant,	Charlestown, Ind.	Nov. 16
Jan. 1.	Air compressing machinery,	London, Eng.	Nov. 16
Jan. 1.	Railway (27 miles),	Lumberton, N.C.	Nov. 23
Jan. 2.	Electric light franchise,	Marysville, Cal.	Nov. 23
Jan. 2.	Reservoir,	Llanelly, Wales.	Nov. 30
Jan. 2.	Road improvements,	Sausalito, Cal.	Nov. 30
Jan. 2.	Bridge,	Saginaw, Mich.	Dec. 7
Jan. 2.	Cement,	St. Paul, Minn.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 28.		
Jan. 3.	Bridge superstructure,	Lockport, Ill.	Nov. 16
	Advertised, Engineering News, Nov. 16.		
Jan. 3.	Water-wks and drainage,	Conception, Chili.	Oct. 26
Jan. 4.	Railway (200 miles),	Ceylon.	Sept. 7
Jan. 4.	Jail,	Alexandria, Minn.	Dec. 7
Jan. 6.	Hospital buildings,	Swindon, England.	Nov. 16
Jan. 6.	Water mains (416 tons),	Roscommon, Ire.	Nov. 23
Jan. 9.	Sewer (10 miles),	Salisbury, N. C.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 10.	Bridge,	Redding, Cal.	Nov. 30
Jan. 11.	Electric plant,	Gastonia, N. C.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 11.	Water-works,	Gastonia, N. C.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 11.	Timber,	Cape Town, Cape Colony.	Dec. 7
Jan. 11.	Sewerage system,	Gastonia, N. C.	Dec. 7
	Advertised, Eng. News, Dec. 7 to 21.		
Jan. 12.	Bridge Bonds,	La Crosse, Wis.	Nov. 30
Jan. 15.	Rapid transit tunnel,	New York.	Nov. 16
Jan. 31.	Water-works,	Ada, Minn.	Oct. 26
Feb. 15.	Sewers and water-works,	Tampico, Mex.	Oct. 12
Jan. 19.	Government building,	Helena, Mont.	Nov. 30
Jan. 26.	Waterway, shafts, etc.,	Vallietta, Malta.	Nov. 30
Feb. 1.	School building plans,	Toronto, Ont.	Nov. 30
Feb. 1.	Government building,	Boise, Idaho.	Dec. 7
Feb. 27.	Mining lease,	St. Petersburg, Russia.	Nov. 2
Feb. 28.	Railway (75 miles),	Matthews, Ind.	Nov. 23
Mar. 12.	Plans for hall,	Belfast, Ireland.	Nov. 23
No date.	Air shaft,	Henry, W. Va.	Dec. 7
	Advertised, Engineering News, Dec. 7.		
"	Plans for school bldg.,	Seattle, Wash.	Nov. 23
"	School,	Woodbine, N. J.	Nov. 30
"	Garbage disposal,	Waterbury, Conn.	Nov. 30
	Advertised, Eng. News, Nov. 30 and Dec. 7.		
"	Lumber, (500,000 ft.),	Crow Agency, Mont.	Dec. 7

RAILWAYS.

ATHENS SOUTHERN.—J. S. B. Thompson, Asst. Gen. Supt. of Southern Ry., Atlanta, Ga., informs us that on Oct. 31 the line of road between Athens and Lula, Ga., was sold by the State of Georgia, and that the purchasers are arranging to become incorporated as the Athens Southern Ry. Co., but that no new construction work is involved.

BELLINGHAM BAY & BRITISH COLUMBIA.—Bids are being asked, according to reports, for constructing the first ten miles of the extension of this line from its present terminus at Sumas, Wash., to the company's new coal fields on Boulder Creek in the foothills of Mount Baker. Surveys have been made for 33 miles, and it is expected to build 18 miles before Nov. 1, 1900. J. J. Donovan, Ch. Engr., New Whatcom, Wash.

BRITISH COLUMBIA.—Smith Curtis, Rossland, B. C., has given notice that an application will be made to the next legislature of British Columbia for the incorporation of a company which proposes to construct a line from a point on the Columbia River, south of Arrow Lake, to Vancouver, B. C.

BURLINGTON & MISSOURI RIVER.—Kilpatrick Bros. & Collins, Beatrice, Neb., are reported to have been awarded the contract for grading an extension of this line from Talooka Southeast through the Big Horn Basin to Cody, Wyo. The Northern Pacific is also said to be about to construct a similar line. I. S. P. Weeks, Ch. Engr., Lincoln, Neb.

CARBON COUNTY.—This company has been incorporated in Utah with a capital stock of $600,000 to construct an extension of the Rio Grande Western Ry. from Scofield, Utah, to Pleasant Valley, via Clear Creek, seven miles, and a line from Mounds to the Sunnyside coal mines and nine miles up Whitmore Canon, a total of 26 miles; estimated cost of construction, $16,000 a mile. W. G. Sharp, Pres.; Robert Harkness, Vice-Pres.

CHATTAHOOCHEE VALLEY.—Track-laying is about to begin by Brooks & Sons, West Point, Ga., according to reports, on the extension of this line from Riverview to Mechanicsville, via Beulah, Ala., 9 miles. Grading is expected to begin next month for a new line from West Point up the Chattahoochee Valley.

CHESTER, PERRYVILLE & STE. GENEVIEVE.—Work began at the mouth of the Saline River, Nov. 27, on the construction of this proposed railway, which is designed to connect the railway systems of Missouri and Illinois. The portion of the line from the Saline River to Chester, Ill., is already completed; the completed line will be 40 miles in length. J. C. Houck, Supt., Perryville, Mo.

CHICAGO, DUBUQUE & OMAHA.—This company has been incorporated, according to reports, to construct a line from Dubuque, Ia., to Cedar Rapids and Omaha, Neb.; capital stock, $25,000. C. H. Meyer, Dubuque; H. J. Stiger, Cedar Rapids, Ia., and G. R. Struble, Toledo, Ia.

CINCINNATI & NORTHWESTERN.—This company has been incorporated in Indiana with a capital stock of $60,000 to construct a line from Connersville to Richmond, Ind., and thence 50 miles into Ohio. Powel Crosley and Charles T. McCrea, of Cincinnati, O., are directors.

COAL & IRON.—This company will let a contract in the spring for building about 43 miles of line in West Virginia, involving some heavy work, as stated in an advertisement in this issue. The company wants bids until Dec. 30 for constructing two tunnels. C. H. Latrobe, Consult. Engr., 813 Merchants' Bank Bldg., Baltimore, Md.

COLUMBIA & COVELLO.—This company has been incorporated in Washington, with a capital stock of $300,000, to construct a railway from Township 11 to a point either at Dayton, Waitsburg, Menoken or Riverside, Wash., via Whitstone Hollow, which is a natural grade with no obstructions; it will tap a rich wheat belt in Columbia county. J. A. Turner and Chas. A. Thronson, Dayton, Wash., are interested.

DENVER & SOUTHWESTERN.—This company was incorporated in New Jersey Nov. 19 with a capital stock of $5,000,000, to build and operate railway lines in Colorado and in the southwestern part of the United States. K. K. McLaren, Wm. H. Brearley and Edwin T. Dudley, of Jersey City, N. J., are incorporators.

DES MOINES, IOWA FALLS & NORTHERN.—This company has been incorporated in Iowa with a capital stock of $50,000 to construct a railway from Des Moines northeasterly to Osage, Ia., via Nevada, Iowa Falls and Hampton. E. S. Ellsworth, Vice-Pres.; W. H. Courtney, Vice-Pres., of Iowa Falls.

DULUTH & NEW ORLEANS.—Press reports state that this company has floated bonds for the construction of its proposed line from Des Moines to Osage, Ia., via Nevada and Iowa Falls, about 30 miles. H. C. Arnold, Pres., Minneapolis, Minn.; S. V. Wardell, Secy., and B. Schreiner, Ch. Engr., both of Nevada, Ia.

EASTERN OKLAHOMA.—We are informed that surveys are in progress for this new line from Guthrie to Pawnee, Okla., via Perkins and Stillwater, 73 miles. Contracts have been let for the first 56 miles, of which about one-half is completed. The contractors are: A. Moore, Newton, Kan.; the Shutt Improvement Co., Pueblo, Colo.; Sparr & Stubbs, Lawrence, Kan., and Ware & Maney, Topeka, Kan. E. P. Ripley, Pres., Chicago; James Dun, Ch. Engr., Topeka.

ELK VALLEY, SAND GAP & CAPUCHINE.—J. A. Johnson, Pres., and Aaron Fell, Gen. Supt., Elk Valley, Tenn., are said to be in Knoxville, Tenn., purchasing equipments for the railway which ascends Jellico Mountain on either side and is operated by drumhead and cable.

FAYETTE & MARION.—This company has been incorporated in West Virginia with $50,000 capital stock to construct a line from a point on the Fairmont, Morgantown & Pittsburg division of the Baltimore & Ohio R. R. to Fairmont, W. Va. Horatio S. Dunbar and Isaac Hunt, of Uniontown, W. Va., are said to be incorporators.

FORT SMITH, POTEAN & WESTERN.—This company was incorporated Nov. 22 with a capital stock of $250,000, to construct a line in Kansas. C. J. Devlin, W. S. Wear and J. D. Norton, all of Topeka, Kan., are incorporators.

GEORGETOWN & MARION.—The Atlantic Coast Lumber Co., Georgetown, S. C.; Lewis H. Hall and others are said to have organized this company to construct a line from Georgetown to Marion, S. C., about 50 miles.

GERMANY.—The Eulengebirgsbahn Akt. Ges. Reichenbach I. Schl. has been incorporated to build a railway from Reichenbach, via Peterowaldau and Silberberg to Mittelsteine, with a branch to Johann-Baptista Mine. Capital stock, about $1,080,000.

GREAT EASTERN.—J. N. Macleary, Suffolk, Va., writes us that 20 miles right of way has been secured, that all surveys have been completed, and 46 miles located for this line, which will extend from Selma through Fremont, Snowhill, Washington, Leechville, Fairfield to Englehard, Va. Contracts will be probably let by Feb. 1.

GREAT NORTHERN OF CANADA.—J. M. Shanley, New Carlisle, Que., Ch. Engr. for Ross, Barry & McRae, is quoted as stating that grading will soon be completed on the new sections from Shawenegan to Montcalm, 33 miles, and from St. Jerome to Hawkesbury, Que., 35 miles; masonry work on these sections will also be completed in one month. About 60 miles of 70-lb. rail have already been laid, about 10 miles of ballasting has been completed east of Montcalm. Numerous bridges are being or about to be built, the largest being that over the Ottawa River at Hawkesbury, the masonry and approaches for which are expected to be completed Dec. 24. J. G. Scott, Gen. Mgr., Quebec, Que.

GREENBRIER.—W. A. Hankins, Ch. Engr., Ronceverte, W. Va., informs us that this line will be used as a feeder of the Chesapeake & Ohio Ry., and will run from a junction with the Chesapeake & Ohio at Whitcombs, W. Va., up the Greenbrier River, about 98 miles. Track-laying will commence about Jan. 1, and it is expected that operation will begin June 1. H. C. Simms, Pres., Huntington, W. Va.

GULF & SHIP ISLAND.—S. S. Bullis, Gen. Mgr., Gulfport, Miss., informs us that this company is now working over the line between Hattiesburg and Jackson, Miss., about 90 miles, and expects to have it all completed and in operation by May 1. The work is all arranged for and the bridges have been bought from the Pennsylvania Steel Co. Work is also under way on the Columbia branch,

which is 49 miles in length, and the Laurel branch, 41 miles, making a total of 250 miles, all of which will be completed by May 1. Everything is contracted for with the exception of about 4,000 tons of rail.

GUYANDOTTE VALLEY.—The contract for constructing 30 miles of line in West Virginia has been let to Hoover, Stearns & Co., Columbus, O., according to report. J. L. Caldwell and John H. Holt, Huntington, W. Va., are interested.

HOCKING VALLEY & LAKE ERIE.—Surveys have been made and estimates are now being prepared for the extension of this line to a connection with the Chesapeake & Ohio Ry. at Charleston, W. Va., 40 miles. A bridge would have to be erected over the Ohio River. F. R. Sheldon, Ch. Engr., Point Pleasant, W. Va.

HOUSTON, BRAZOS & NORTHERN.—The charter of this company has been formally approved by the attorney-general of Texas. The company is capitalized at $5,000,000, and it has acquired all the property and rights of the Texas Western Ry. It is proposed to build westerly and northwesterly from Houston, Tex., towards Tishomingo, Ind. Ter., 400 miles; also a branch to Sealy, Tex. Neil P. Anderson, Fort Worth, Tex.; R. B. Hawley, Galveston, Tex., and Sanford B. French, Chicago, are incorporators.

INTERIOR RY.—D. C. Willett, Morganfield, Ky., Pres., writes us that St. Louis parties will take $5,000 a mile and second mortgage of 30 years 6% bonds, and that $2,500,000 of first mortgage bonds will be issued for the proposed line. Surveys for the road have not yet been made, and no estimates prepared. The company is ready for rolling stock. Easy grade. Line will be 225 miles long, and will extend from Fort Smith, Ark., to Guthrie, Okla. Ter. No subsidies.

JEFFERSON & NORTHWESTERN.—The charter of this company obtained in Texas has received official approval; and it is proposed to construct a railway from Jefferson to a point four miles southwest of Linden, Tex.; capital stock, $20,000. J. R. Darnell, Jefferson, Tex., and E. Baucker, Jackson, Mich., are incorporators.

KENTUCKY WESTERN.—We are informed that the Southern Construction Co. has completed about 15 miles of grading on the proposed line from Blackford to Dickinson, Ky., about 18 miles. Contracts will be sub-let for relaying-rails, bridges, station buildings, etc. Irving H. Wheatcroft, Pres., St. Louis, Mo.

KICKAPOO VALLEY & NORTHERN.—This railway was sold Nov. 23 to the Western Wisconsin R. R. Co. for $20,952. It is said that improvements will be made. Horace A. J. Upham, Pres., Milwaukee, Wis.

LITTLE RIVER VALLEY.—F. M. Butts, Horatio, Ark., informs us that this company is now building an extension from Neal Springs east 16 miles to Locksburg, Ind. Ter. The grading contract has been let to J. P. Lahey, Horatio, Ark., and he has completed over two miles of work. Surveys have been completed and the right of way secured for eight miles. D. C. Richardson, Pres.; S. L. Morrow, Ch. Engr., both of Horatio.

MASSACHUSETTS.—Frank H. Wright, Great Barrington, Mass., has petitioned the General Court of this state for authority to construct a steam railway from Springfield, Mass., through Hampden and Berkshire counties to New York state. H. F. Keith, C. Will Platt, Orlando C. Bidwell and Geo W. Mellen are said to be interested.

MEMPHIS & CHATTANOOGA.—F. P. Poston, Memphis, Tenn., informs us that surveys have been completed on three routes for this proposed line from Memphis to Chattanooga, Tenn., 45 miles, and that parties are now in the field securing rights of way. The capital stock of $250,000 has been secured, and contracts are expected to be let and actual work begun within 30 or 60 days.

MEXICAN CENTRAL.—We are informed that Hampson & Smith have been awarded the grading and masonry contract for 65 kilometers (40.37 miles) of the Colima branch of this railway, commencing at Guadalajara, Mex. They began work on Nov. 22, and agreed to complete the contract in eight months, or by June 22. The company's offices are at Mexico, Mex., and 70 Kilby St., Boston, Mass.

MEXICAN INTERNATIONAL.—Reports from Durango, Mex., state that this company has filed a record of the final survey for the proposed extension of this line from Durango to Mazatlan, on the Pacific coast, with the national department of public works, and that it has been finally approved by the Mexican authorities. Thos. H. Hubbard, Pres., 23 Broad St., New York.

MEXICAN NORTHERN.—Robert S. Towne, Pres., 27 William St., New York, informs us that the reports stating that this line was to be extended soon to connect with the Monterey & Mineral Belt Ry., at Monterey were entirely unauthorized and erroneous.

MINNEAPOLIS, LITTLE ROCK & GULF.—This company was incorporated in Missouri Nov. 20 with a capital stock of $2,250,000, to construct a line from Bowling Green across the Missouri River at Hermann to West Plains, Mo., 225 miles. It will probably be operated as an extension of the Chicago & Alton. L. Bradford Prince, Santa Fe, N. Mex.; Sidney F. Emmerson, Chicago, and W. H. Bowles, Lone Prairie, Mo., are incorporators.

MISSOURI PACIFIC.—Jas. W. Way, Ch. Engr., St. Louis, Mo., informs us that the survey has just been commenced from Bagnell to Springfield, Mo.

MONTANA.—Cook & Woldson, Helena, Mont., are said to have about 100 teams at work on the grading and bridging for the extension of this line from Summit to Merlino, via Martinsdale, Mont., 44 miles. Work has been completed to Martinsdale, 20 miles. R. A. Harlow, Gen. Mgr., Helena.

MUNISING.— E. H. Scott, Gen. Mgr., La Porte, Ind., informs us that no further construction work on this line is contemplated at present, as was reported. R. E. Morrison, Pres., Munising, Mich.

NEW YORK, NEW HAVEN & HARTFORD.—This company is still engaged on the preparing of plans for the abolition of grade crossings in Pawtucket and Central Falls, R. I. Two plans will be provided: One contemplating the overhead system, and the other the depression of the tracks. F. S. Curtis, Ch. Engr., New Haven, Conn.

NORTH CENTRAL.—This company was incorporated in Arkansas, Nov. 22, with a capital stock of $100,000, to construct a line from Winneroa, on White River, west of Oregon, Ark., via Buffalo City, Onset, Yellville and George's Creek, 50 miles. A. E. Winner, Kansas City, Mo., and Jerry C. South, Mountain Home, Ark., are incorporators.

SEABOARD AIR LINE.—The consolidation of the following railway systems into one company, capitalized at $75,000, is said to be almost consummated: The Raleigh & Augusta Air Line, Durham & Northern, Roanoke & Tar River, Seaboard & Roanoke, Louisburg Ry., the Carolina Central, Chesterfield & Kershaw, Palmetto Ry., the Georgia, Carolina & Northern, Seaboard Air Line Belt Ry., Georgia & Alabama Ry., the Florida Central & Peninsular lines, Georgia & Alabama Terminal Co., Logansville & Lawrenceville R. R., Pittsboro Ry., the South-bound Ry. and the Richmond, Petersburg & Carolina R. R. John Skelton Williams, Pres., Richmond, Va.

SOUTHERN.—Reports from Newport state that surveys have been begun for a new line to run from the present line at Strawberry Plains to Newport, via Danridge, Tenn., thus shortening the distance by rail between Knoxville, Tenn., and Asheville and Salisbury, N. C. Many improvements have recently been made on the Knoxville division. T. D. Kemp, Asst. Engr., Knoxville.

UNION PACIFIC.—President Burt is quoted as saying that it is probable that among the first improvements this company will make next year will be the double-tracking of one of the Union Pacific lines west of Omaha, Neb.

WARREN & CORSICANA.—This company was incorporated in Texas, Nov. 23, with a capital stock of $100,000, to build a line from Warren to Corsicana, Tex., about 100 miles. The principal office of the company will be at Houston, Tex. Jas. I. Campbell, Pres.

WASHINGTON.—This company has been incorporated in Oregon with a capital stock of $1,000,000 to construct a line from Touchet, Wash., to Prescott Station, and to Covello, Wash., with branches; also lines from Dayton, Wash.; Pendleton, Ore., and Pomeroy, Wash. The Oregon R. R. & Navigation Co., Portland, Ore., is reported as being directly interested. Charles Steele and J. C. Havely are incorporators.

WESTERN WISCONSIN.—This company was incorporated Nov. 21, with a capital stock of $600,000 to operate the Kickapoo Valley & Northern Ry., which was recently sold. Horace A. J. Upham, Wm. E. Black and Wm. S. Fish, of Milwaukee, Wis., are incorporators.

STREET AND ELECTRIC RAILWAYS.

BANGOR, ME.—Local papers state that Boston and Philadelphia capitalists are negotiating for the purchase of the Penobscot Central R. R., the electric line from Bangor to Charlestown, 26 miles. G. D. Howell, Philadelphia, Pa., and L. Tillinghast, Boston, engineers, are making inspections of the route with a view to ascertaining the cost of improving the road and of constructing the section not yet completed from Corinth to Charlestown.

EASTPORT, ME.—Local papers state that a syndicate has purchased the Eastport St. Ry. and the Calais, St Stephen and Milltown St. Ry., and will construct an electric road, 30 miles long, down the St. Croix River, connecting St. Croix and Eastport.

FAIRFIELD, ME.—The Somerset Fiber Co., owners of the Benton-Benton Falls road, it is said, is considering the question of making improvements to cost about $150,000, in which is included the extension of the electric line from Fairfield to Shawmutt.

BURLINGTON, VT.—Robt. Avery, Pres. of the Burlington & Hinesburgh R. R. Co., writes us that surveys have been completed, the rights of way obtained, the capital secured, the road graded, five miles of track laid, culverts, trestles and bridges built, and electric work will be finished and the road put in operation by June 1. The line will be 11 miles long, extending from Burlington, through South Burlington, Shelburne, St. George to Hinesburgh.

ATTLEBORO, MASS.—The Bristol County Electric Ry. Co., which was recently granted a franchise, will begin the construction of its road next spring. D. A. Brooks and H. E. Swazey are said to be interested.

BOSTON, MASS.—The West Roxbury & Roslindale, the Norfolk Central, the Norfolk Suburban and the Needham & Boston Electric St. Rys. are to be consolidated with the Massachusetts Electric Ry. Co., and it is stated that three other lines will be consolidated, consisting of all the roads owned or operated by the company.

BOSTON, MASS.—At a recent meeting of the directors of the Quincy & Boston St. Ry. Co., it was voted to petition the railroad commissioners for permission to issue $317,000, of which $87,000 would be used for double tracking and relaying rails.

BROCKTON, MASS.—Local papers state that the Brockton, the Taunton & Brockton, the Boston, Milton & Brockton, the Brockton, Bridgewater & Taunton and the Brockton & East Bridgewater St. railway companies have been consolidated and will be known as the Brockton St. Ry. Co. The new system will have 100 miles of line under its control.

EASTON, MASS.—We are informed that the construction of the Easton St. Ry., 4 miles long, is under way, and will have four tracks. E. F. Draper, 200 Summer St., Boston, may be addressed.

METHUEN, MASS.—The selectmen have granted the petition of the Lowell, Lawrence & Haverhill St. Ry. Co. and the Lawrence & Methuen St. Ry. Co., recently incorporated, for extensions of their lines through different streets in this town.

MILFORD, MASS.—The Milford, Holliston & Framingham St. Ry. Co. proposes to build an electric railway next spring from Westboro to Woodville, a distance of about 12 miles. W. B. Ferguson, Pres.

PITTSFIELD, MASS.—The Pittsfield St. Ry. Co., it is said, will petition the State Legislature for right of way for extending its tracks to Lenox on the company's property, and will not ask for a franchise for extending its lines on Lenox territory. The extension will cost about $100,000.

WARE, MASS.—We are informed that the construction of the Ware St. Ry. Co.'s electric line, 10 miles in length, which will extend through Hardwick (Gilbertville), New Braintree, West Brookfield, Ware, Palmer and West Warren will soon be begun, and that a power house and car barn will be erected this winter in Ware. Franklin Worcester, Pres., 200 Summer St., Boston; Frank Slater, V.-Pres.; E. F. Draper, Treas, 200 Summer St., Boston.

ALBANY, N. Y.—The Albany Ry., the Watervliet Turnpike & R. R., and the Troy City Ry. Co. were reorganized Nov. 29 under the name of the United Traction Co., with $4,000,000 capital stock. Robt. C. Pruyn, Pres., Albany; Charles Cleminshaw, Vice-Pres., Troy.

BEDFORD, N. Y.—The Bedford & Eastern Ry. Co. was granted a franchise Nov. 23 for an electric railway, 3 miles in length, in this town, to be of standard gage, for a period of 50 years.

GREENWICH, N. Y.—The state board of railroad commissioners has authorized the Greenwich & Schuylerville Electric Ry. Co. to increase its capital stock from $200,000 to $500,000. The company proposes to build a main road from Greenwich to Schuylerville and Stillwater, and branch roads to Thomson's Mills, Fort Miller and Fort Edward.

MOUNT VERNON, N. Y.—The council has received applications from the Union Ry. for many extensions of its road through the streets of this town. A public hearing will be given on the matter on Dec. 31.

NEW ROCHELLE, N. Y.—The Westchester R. R. Co., belonging to the Huckleberry system, has filed a certificate of extension of its lines in New Rochelle. The company proposes to construct either single or double tracks along four new branches.

NEW YORK, N. Y.—The contract for supplying the Manhattan Ry. Co. with generating machines for the new power house and apparatus for sub-stations has been let to the Westinghouse Electric & Mfg. Co., Pittsburg, at about $1,500,000. The apparatus consists of eight three-phase alternating current generators, each of 6,650 HP. capacity, which will supply sub-stations with current. These sub-stations will be equipped with 26 rotary converters in units of 2,000 HP. each, which are designed to produce direct current of 500 volts for use on the elevated road. A large power house will be erected on a site selected at 74th and 75th Sts. and the East River, and the contract for 9,000 tons of third rail has already been let to the Lackawanna Iron & Steel Co., Scranton, Pa., and 52 Wall St. The boilers will be supplied by the Babcock & Wilcox Co., 29 Cortlandt St. The Manhattan Ry. Co. has voted to issue $18,000,000 additional stock to meet the expense of the improvements, by changing its motive power from steam to electricity. W. E. Baker, Ch. Elec. Engr.

PENN YAN, N. Y.—J. C. Williamson, Elmira, has received the contract for constructing the Seneca Lake & Elmira Electric R. R. power house, to cost $10,000. Boilers have been purchased.

WATKINS, N. Y.—Local papers state that Chas. W. Hathaway, Watkins, and G. R. C. Smith, Potsdam, are said to be planning to construct an electric road between Watkins and Burdette. The highway commissioners will consider the project on Dec. 7.

CAMDEN, N. J.—The Camden & Suburban Ry. Co. proposes to construct an extension to its line connecting with the projected line of the Camden & Trenton R. R. and running to Riverton. The construction of power houses, buildings, etc., will be necessary.

CHESTER, PA.—The Philadelphia, Morton & Swarthmore St. Ry. Co. has petitioned for a franchise for an electric road on Ninth St. and on Kerlin St. E. A. Howell, attorney, writes that the road extending through Darby to Chester and Folsom to Media, a distance of 20 miles, is nearly constructed. F. W. Hammett, Pres., 113 Arch St., Philadelphia. Harris & Damon, Engrs., Darby.

DURHAM, PA.—Press reports state that the Delaware Division Canal, in Bucks county, will run its boats by a trolley system next season, and a trolley road is to be built on the towpath.

GERMANTOWN, PA.—The board of surveyors has approved plans of the Union Traction Co. for the new line between Germantown and Fairmount, connecting the Schuylkill Falls and Manayunk with Germantown. The route is through Wayne and Coulter Ave. to Chelton Ave., and thence by way of Midvale Ave. to Ridge Ave. The construction will soon be commenced. C. P. Weaver, Special Agent.

OIL CITY, PA.—We are informed that the right of way for the Citizens' Traction Co.'s electric line, recently incorporated with $150,000 capital stock, has been obtained and that most of the stock has been subscribed. The line is to be about seven miles long, extending through this city. Dan. J. Geary, Pres. Wm. Hasson and Henry J. Beers, of Oil City, are said to be interested.

PHILADELPHIA, PA.—The Railways Co. General has purchased the Michigan Traction Co., which operated 12 miles of road in Kalamazoo, Mich., and ten miles in Battle Creek, Mich.; also, the Inter-Urban Traction Co., which when completed will connect with the Michigan Traction road and will be 28 miles long. The following companies have been acquired by the Railways Co. General: Michigan Traction Co., Inter-Urban Traction Co., Lewisburg, Melton & Watsontown Passenger Ry., Milton Electric Light & Power Co., Montoursville Passenger Ry. Co., Montoursville Electric Light Co., Philadelphia & Bristol Passenger Ry. Contracts for work for the Bridgeton, N. J., power-house and other work are being let.

PITTSBURG, PA.—It is reported that the West End Traction road has been purchased by the Consolidated Traction system for about $3,000,000, and that the United Traction Co., owned by the Philadelphia company, will also be merged with the Consolidated Traction Co.

READING, PA.—New York capitalists are reported to be negotiating for the purchase of the Reading & Southwestern Electric Ry., running from Reading to Mohnsville, and the Mohnsville & Adamstown R. R., extending from Mohnsville to Adamstown, with a view to connect these lines and building to New Holland, where connection will be made with Lancaster.

SELINS GROVE, PA.—Surveys are being made of the abandoned North Branch R. R. under the supervision of Thomas Moorehead, Pres. of the Tuscarora Valley R. R. Co., which will build a road from Selins Grove to Hancock, Md., using electric cars to transport passengers and steam for freight traffic.

WEST CHESTER, PA.—The Wilmington & West Chester Ry. Co. was incorporated Nov. 27, with $60,000 capital stock, by James H. Hoffnecker, Jr., Pres.; C. C. Brown, Wilmington, Del., and Carrol R. Williams, Philadelphia, to operate an electric railway.——The West Chester & Downington Ry. Co. was granted a franchise Nov. 28 for a trolley line along West Gay St. to the city limits. The work is to be completed in one year. Larry Eyre, Pres.

WEST CHESTER, PA.—T. E. O'Connell, West Chester, writes us that the contracts for the construction of the Bethlehem & Freemansburg St. Ry. Co., 7 miles long, to run through Butztown, Freemansburg and South Bethlehem, have been let and the work begun. The following contractors have received portions of the work: Vandergrift & Jacobs, 20 S. Broad St., Philadelphia; Wm. H. Quigg, 603 Fidelity Bldg., Philadelphia.

NORFOLK, VA.—C. M. Randolph, Secy. Hampton Roads Development Co., writes us that eight miles of electric railway is to be constructed first, but that no contracts will be let at present.

CLARKSBURG, W. VA.—The Clarksburg St. Ry. Co. has been incorporated by S. C. Denham, N. L. Highland, F. P. Haymaker and others, to construct a street railway in this city. Work will be started in the spring.

WHEELING, W. VA.—Surveys for the proposed trolley line from Bridgeport to Mount Pleasant have been made. Jacob Maule, Colerain, is the chief promoter.

ATLANTA, GA.—The council has granted the petition of the Collins Park & Belt road for the extension of its Juniper St. line through Pine, Peachtree, Ivy and Baker Sts.——The petition of the Atlanta & Ruswell Electric Ry. Co. for an extension was granted.

CHATTANOOGA, TENN.—Local papers state that a party of Chicago capitalists, headed by J. C. Shaver, is here to inspect the lines of the Chattanooga Electric St. Ry. Co., and two inclines up Lookout Mountain, with a view to purchasing them. Negotiations have been pending for some time. The properties involved are worth $1,000,000.

KINGSTON, TENN.—O. T. Tindell writes us that the surveying for the Kingston Terminal Ry. Co., 1½ miles long, will be commenced at once. Capital is now being raised for the work. Address President Doremus and Chief Engineer Bigelow, Rockwood.

BOWLING GREEN, O.—Theodore L. Wentz has been granted a franchise by the county commissioners for an electric line through Wood county over private way. The right of way is nearly all secured for the proposed road, which will extend from Toledo to Leymoyne, Pemberville, Fosteria, Findlay and south to Cincinnati.

BRILLIANT, O.—Local papers state that bids were received by the mayor Dec. 5 for constructing and operating an electric road between Brilliant and Mingo, to be commenced within six months, and be completed within one year.

READING, O.—Bids were received Dec. 4 by A. Elmlinger, Jr., Village Clk., for constructing and operating a street railway in Reading.

CAMBRIDGE, O.—The council has granted A. E. Townsend and others a franchise to operate an electric railway through certain streets in Cambridge and to connect with Byersville. The ordinance calls for the completion and operation of the road by Nov. 1.

CEDARVILLE, O.—The Rapid Transit Co. has received a franchise for an electric road along the Columbus Pike to Wilberforce. Work will be started soon. Frederick H. Treat, Pres., Philadelphia, Pa.; J. N. Neff, Vice-Pres., Xenia; Wm. A. Heller, Supt., Philadelphia, Pa.

CHILLICOTHE, O.—The county commissioners have granted the Chillicothe, Clarksburg & Mt. Sterling Electric Co. the right of way in Ross county, for an electric railway to connect with a line from Columbus, passing through Clarksburg and other towns. The construction will be begun at once.

TOLEDO, O.—The construction of the Detroit & Toledo Electric Ry. Co.'s line from Monroe to the lake has been completed; the line extending from Toledo to Monroe will be finished by June 1, and work will be started on the route to Detroit next season. C. A. Black, Pres.; E. M. Fowler, Vice-Pres.; John M. Mulkey, Treas. and Gen. Mgr.

TORONTO, O.—The council has granted G. A. Maxwell, Steubenville, a 25-year franchise for an electric railway, which will be extended to Empire and south to Steubenville.

WARREN, O.—The county commissioners on Nov. 20 granted a 50-year franchise to the Ashtabula & Warren Electric Ry. Co., which is backed by Philadelphia capitalists.

XENIA, O.—Reports state that J. W. Neff, Vice-Pres. Xenia & Cedarville Electric Ry. Co., desires to purchase about 800 tons of first-class second-hand T-rails.

YOUNGSTOWN, O.—The Mahoning Valley & Southeastern Ry. Co. is reported to the promoters of the electric railway which is to extend through Warren, Niles, Girard, Youngstown, Struthers and Lowellville, a distance of 22 miles. The portion from Haselton to Struthers is now under construction and the right for the rest of the way is being secured.

FORT WAYNE, IND.—The Indiana & Ohio Traction Co was organized Nov. 27 to build an electric railway from Hicksville, O., to Marion, Ind., a distance of 80 miles The company will soon make applications for franchises and will locate its power houses in this city. James H. Simonson, Pres.; John D. Olds, Vice-Pres.; William Kaough, Secy.; John W. White, Treas.

LOGANSPORT, IND.—J. T. McNary, Pres. Logansport, Rochester & Northern Traction Co., writes us that the contract for the entire electric line has been let, but some parts of it may be sublet. The road will be 101 miles in length, extending from Logansport through Rochester, Warsaw, North Webster, Albion and Kendalville. Walter A. Osmer, Ch. Engr., Logansport.

SHELBYVILLE, IND.—The council is considering the proposition of Chas. N. Taylor, promoter of the proposed electric railway between Indianapolis and Shelbyville, asking for a 50-year franchise for the line. Mr. Taylor states that the road will be built whether the franchise is granted or not, as a private right of way has been secured along the north side of the city. The work will begin in the spring on this line, which will extend from Indianapolis to Bethel and Acton, and run parallel to the C., C., C. & St. L. Ry.

DETROIT, MICH.—President Mills, of the Shore Line trolley road, has called a meeting of the directors of that company, to be held on Dec. 12, to consider the question of selling the line to the parties who have been negotiating for its purchase.

KALAMAZOO, MICH.—The Grand Rapids & Kalamazoo Electric Ry. Co. has received a franchise to extend its lines through the city for the Vicksburg extension to connect with the Grand Trunk R. R.

CHICAGO, ILL.—The Metropolitan Elevated R. R. Co. proposes to extend its southwestern branch for several blocks, and is considering the proposition of extending the Garfield Park branch half a mile.

CHICAGO, ILL.—It is reported that the Yerkes' interests in the suburban lines composing the Chicago Consolidated Traction Co. have been purchased by the Chicago Union Traction Co., which is also negotiating for the purchase of the Yerkes' interests in the Suburban R. R. Co.——The Calumet Electric St. Ry. Co. has been authorized by Judge Kahlsaat, of the United States Circuit Court, through the National Bank of Illinois, to issue $123,195 in bonds for the improvement of its lines.

DANVILLE, ILL.—The Danville St. Ry. & Light Co. has been incorporated, with $700,000 capital stock, by F. Lindley, A. R. Samuel and O. W. Cannon.

KAUKAUNA, WIS.—Local papers state that the East Shore Electric Ry. & Light Co. proposes to construct about 40 miles of road down the east shore of Lake Winnebago to Fond du Lac.

WAUKEGAN, WIS.—R. D. Vayun is the promoter of the proposed electric railway from Waukegan to Fox Lake. The council is considering the question of granting the right of way.

LEAVENWORTH, KAN.—Willard E. Winner, chief promoter of the electric railway to be operated between Kansas City, Kan., and Leavenworth has asked the county commissioners for a franchise for an extension from Kansas City, Kan., to Bonner Springs, Lawrence and Topeka.

GUTHRIE, OKLA. TER.—Mrs. A. C. Beckwith is reported to have applied to the council for an electric street railway in this city.

DENVER, COLO.—Surveys for the proposed Boulder Electric Ry., from Denver to Boulder, are being made. An electric plant will be erected near Lafayette.

SEATTLE, WASH.—The improvement of Union Trunk line has been started by Stone & Webster, 4 Post Office Square, Boston, Mass., the promoters of the road. The syndicate has purchased 1,000 tons of steel T-rails from the Colorado Fuel & Iron Co., Denver, Colo., at $50 a ton, and the work of laying the tracks has already begun on the Rainier Heights division. The roadbed and overhead trolley of the entire line will be rebuilt and the new cars, which have been ordered, will be equipped with two 40-HP. motors. The plans for the new plant have been completed and the contracts for the boilers let. The steam and electric power house formerly owned by the Seattle Steam Heat & Power Co. will be utilized. A steel frame and brick building, three stories high, is included in the improvements. The contract for the engines, generators and dynamos will soon be let. The new plant's capacity will be about 4,000 HP. The new station and the new steam heating plant will cost about $500,000, the work on the former to be started soon after Jan. 1, and operations in construction will be carried on all winter. The entire cost is estimated at about $1,000,000. Dwight P. Robinson and T. H. Hanford, Engrs.-in-Charge.

BERKELEY, CAL.—Bids are asked by M. L. Hanscom, Town Clk., until Dec. 26, for the purchase of a franchise for a street railway in this town; bond, $5,000. The Oakland R. R. Co. has applied for the franchise.

LOS ANGELES, CAL.—The bid of Phila J. Beveridge for the franchise to build and maintain an electric road, for 23 months, along the Cahuenga foothills, has been accepted by the board of supervisors, and the work has been started, to be finished within six months. John Beveridge, H. J. Whitley, J. A. Weid and others are interested, and the Los Angeles & Pacific Ry. is said to be the backers of the new line, which is to be a branch of the Santa Monica road.——Local papers state that the Santa Ana Gas & Electric Co. has petitioned for a franchise for an electric line from the northern boundary line of the county to Santa Ana, by way of Anaheim, Orange and Fullerton.——The council has passed a resolution accepting the bid of the Los Angeles & Pasadena Electric R. R. for an extension of its franchise, to operate on North Los Nobles Ave. and West Colorado St.

OROVILLE, CAL.—D. M. Delong has received a franchise to operate an electric railway and to erect the necessary poles and wires to transmit electricity for light, power and other purposes.

SAN JOSE, CAL.—The council has granted A. Greeninger, Pres., and others, a franchise for an electric road along Fifth St. The company proposes to build the road to Los Gatos by way of Campbell. Capital stock, $200,000. H. L. Miller, Treas.; C. M. Hatcher, Secy.

LEWISTON, IDAHO.—Local papers state that E. H. Libby, representing a Boston syndicate, has ordered an electric power plant from the Westinghouse Electric & Mfg. Co., Pittsburg, Pa., to operate the electric railway which the syndicate proposes to build. The cost is estimated at about $400,000.

MONTREAL, QUE.—F. S. Wairklyn, Ch. Engr. and Gen. Mgr. of the Montreal St. Tramways Co., is said to be placing contracts in New York for material and equipment of the company's power station, which is to be enlarged, at a cost of about $300,000.

GREENWOOD, B. C.—A franchise has been granted to a company, of which Duncan McIntosh and G. N. Collins are the chief promoters, to build an electric tramway to Phoenix, and lighting this place with electricity.

ENGLAND.—The following electric railway work in England is proposed: The British Electric Traction Co., E. Garcke, Mgr.-Dir., Norfolk St., Strand, W. C., London, will double track the Mumbles line; the Blackpool-Garstang road, Blackpool, is proposed. T. Loftus, Town Clk. The county council of Middlesex, Willesden, will apply for permission to build; the London county council proposes to build through Clapham, Wandsworth, etc.; the Finance, Mines & Industrial Association of Bishop's Waltham and Brockbridge has been authorized to build a line at a cost of $40,000 a mile.

ELECTRIC LIGHT AND POWER.

WESTBROOK, ME.—A syndicate, composed of Lemuel S. Lane, Edward J. Haskell, W. W. Poole and others, of this place, has purchased water power rights, etc., on the Presumpscott River, at Mallison Falls, South Windham. It is proposed to install a plant to cost about $70,000.

MANCHESTER, N. H.—J. Brodie Smith, Gen. Mgr., Manchester Electric Co., and the Garvin's Falls Power Co., writes us that the company has purchased the water power at Garvin's Falls, and proposes to develop from 3,000 to 5,000 HP. as soon as it is possible to get at the work. The dam is already constructed and the canal built, so that it is only necessary to build a power station and put in the wheels and direct-connected generators. A part of this power will be used in connection with the electric light station at Manchester. No steam plant will be put in at Garvin's Falls.

CANAJOHARIE, N. Y.—The Canajoharie Electric Light & Power Co. proposes to build a new plant.

FAIRPORT, N. Y.—Chas. H. Howe, Pres., writes us that arrangements will be made after the March annual meeting for a municipal plant to cost about $20,000. Propositions for organizing a company for installing a plant have been submitted, but nothing has been done.

NEW YORK, N. Y.—Maj. W. C. Brooks, Gen. Supt. Army Transport Service, New York, received the following bids, Nov. 27, for installing a plant in the transport "Crook," all local bidders: Alternate bids to include, with general specifications, one 40 HP. Haurig marine type engine or equal and one Bullock engine type dynamo or equal: F. B. Ellis, $6,997; alternate, $9,013; time, 6 weeks; John N. Robins, 15 Whitehall St., $11,297; alternate, $13,066; Martin Electric Co., Dey St., No. 1, $10,851; No. 2, $13,206; No. 3, $12,506; time, 6 weeks; N. J. Foundry & Machine Co., 26 Cortlandt St., $7,594; alternate, $2,819; time, 60 days; Vance Electric Co., 129 Liberty St., No. 1, $8,400; No. 2, $7,800; No. 3, $7,611; No. 4, $8,000; alternates, No. 1, $2,109; No. 2, $1,591; No. 3, $1,350; No. 4, $1,793; time, 45 working days; New York Electric Equipment Co., 160 Duane St., $11,087; alternate, $14,547; time, 5 weeks.

NEW YORK, N. Y.—Bids are asked by J. L. Shea, Comr. of Bridges, Brooklyn, until Dec. 11, for placing electrical equipment for handling the Carroll St. and Washington Ave. bridges, and by the department of correction, 148 E. 20th St., Manhattan, until Dec. 21, for furnishing the electric current necessary to supply the lights in the city prison during 1900.

PLEASANTVILLE, N. Y.—It is proposed to build a plant, according to reports. H. P. Hays, Pres.

WEST TROY, N. Y.—It is proposed to have the government arsenal at Watervliet operated entirely by electricity.

EAST ORANGE, N. J.—The question of establishing a local electric light company is being considered by the township committee. G. S. Hulbert, Pres. Bd. Education, is interested.

HAMMONTON, N. J.—It is stated that the Hammonton Electric Light & Power Co. has refused to furnish this city electric lights, although the contract does not expire for seven years.

McKEESPORT, PA.—The question of putting in a city electric plant is being considered. Councilman A. B. O'Neil may be addressed.

PARSONS, PA.—The Parsons Electric Light Co., it is stated, intends to improve its plant.

SEBRING, PA.—The question of putting in a plant and water-works is again being considered, according to reports.

SHARON, PA.—The Siemens & Halske Electric Co. of America, Monadnock Block, Chicago, Ill., has been awarded the contract for the electrical equipment for the new works for the Sharon Steel Co., now being erected. There will be two generators of 600 HP. each.

BALTIMORE, MD.—The council is considering a resolution introduced by Major Venable authorizing an appropriation of $2,000 to investigate the matter of and prepare plans for a city plant.

GASTONIA, N. C.—Bids are asked until Jan. 11 for constructing a plant, water-works and a sewerage system, as stated in our advertising columns. J. L. Ludlow, Engr., Winston, N. C.; W. H. Lewis, Mayor; J. F. Love, Town Clk.

RALEIGH, N. C.—John F. Wily, of Durham, N. C., and others are reported to have purchased the water power rights at Fox Island, Cape Fear River.——The question of building a municipal plant is being considered.

ATLANTA, GA.—Wm. S. Ansley, and others, of Atlanta, propose to build a plant to cost about $500,000, according to local papers. At the same time the city is considering the question of building a plant to cost about $150,000. Address Mayor Woodward, Capt. J. W. English and Alderman Kilpatrick.

ELBA, ALA.—A plant is proposed for this place, according to reports. Address J. F. Sanders.

OPELIKA, ALA.—We are informed that J. W. Parsons, Montgomery, Ala., recently awarded the city lighting contract, will want bids in March for erecting the plant, to cost about $35,000. The plant will have a capacity for 50 2,000-c. p. arc and 3,000 16-c. p. incandescent lights.

TUSKEGEE, ALA.—Efforts are being made to secure sufficient funds to install a permanent and less expensive method of lighting the buildings and property of the Tuskegee Normal & Industrial Institute. Steam or hot-water heating for the buildings is also proposed. Address W. H. Baldwin, Jr., Pres. Long Island R. R. Co., 32 Nassau St., New York, or Booker T. Washington, Principal, Tuskegee.

LOWELLVILLE, O.—W. S. Moore, J. G. Erskine and Jesse Cunningham have been appointed a committee to superintend the construction of the proposed plant to cost about $8,000.

LAWRENCEBURG, IND.—Jas. B. Nelson, Consult. Engr., 61 Baldwin Block, Indianapolis, has been engaged to prepare plans and specifications for a plant to be constructed on the "rental plan."

CHICAGO, ILL.—The committee appointed by Mayor Harrison to consider the advisability of using the drainage canal's water power has recommended that every effort be used to secure a 50-year lease from the sanitary commissioners for the use of the power near Lockport for electric lighting purposes and the operation of the city's pumping stations.

GILMAN, ILL.—F. L. West has been granted a franchise for a new plant, according to reports.

PEORIA, ILL.—The Peoria General Electric Co. has decided to improve its plant.

MILWAUKEE, WIS.—The council, it is stated, by local papers, will soon consider the matter of advertising for bids for street lighting for one, two, three or five years. Address Aldermen Chase, Hamper, Simpson or Ulrich.

SHEBOYGAN, WIS.—It is stated that the Sheboygan Light, Power & Ry. Co. will erect a new power house.

TWO RIVERS, WIS.—It is reported that plans for a plant and water-works are being prepared, and that an election to vote on the matter of bonds for the improvements will be held in the spring. Estimated cost, about $50,000. C. F. Loweth, Engr., 94 E. 4th St., St. Paul, Minn.

COUNCIL BLUFFS, IA.—Bids, propositions, etc., are asked by the city clerk until Dec. 23, for a municipal plant, the former bids for franchises, etc., having been rejected. There are to be 126 enclosed 2,000-c. p. arc lights. Victor Jennings, Mayor.

BENSON, MINN.—The question of the city owning its plant is reported as being considered.

ST. PAUL, MINN.—Bids were asked until Dec. 6 for lighting certain streets and public grounds by gas or electricity during 1900. Matt. Jensen, Cy. Clk.

VERNDALE, MINN.—Mr. Kerlin, of Park Rapids, Minn., is reported as making arrangements for a plant here, for which he has been granted a 10-year franchise.

DEADWOOD, S. DAK.—Press reports state that Wm. Lardner of this city has sold to the Cascade Water Power & Electric Transmissions Co., 15 miles of water rights on Spearfish Creek for $100,000. The company proposes to put in a plant to furnish power and light for the Black Hills.

KANSAS CITY, MO.—The Home Electric Light Co. through Bernard Corigan, a stockholder, has asked for a franchise to furnish electric light.

MAMMOTH SPRING, ARK.—On Jan. 9 the franchise, buildings, mills, power plant, etc., of the Mammoth Spring Improvement & Water Power Co., will be offered for sale by order of the Fulton circuit court.

PALESTINE, TEX.—The International & Great Northern R. R. Co., it is stated, will build a plant and water-works. Leroy Trice, Gen. Supt.

PINE CITY, WASH.—J. H. Russel, a miner, of the Atlin district, Pine City, has let contracts to the Portland (Ore.) Electric Light & Power Co. for a plant of 500-HP capacity, on Pine Creek, according to reports.

SEATTLE, WASH.—The plant of the Snoqualmie Falls Power Co., according to reports, will be extended at once at a cost of about $300,000. A second steel pipe from the falls through the main shaft to the new chamber, and the placing of enough turbine wheels to double the capacity of the plant are proposed. Another wire will be strung along the present pole line from the falls, and from Renton to Tacoma. The new turbine chamber will be 200 ft. long, 43 ft. wide and 32 ft. high. The new steel pipe through which the water from the river will be taken to the turbine wheels in the new chamber will be 7 ft. wide. The shaft was built with a view to the erection of another pipe. Thos. T. Johnston, Ch. Engr., Chicago, Ill.; John H. Spengler, Supt.; W. E. Baker, Pres., Seattle.

ORLAND, CAL.—G. L. Colgate, Editor Orland "Register," writes us that an electric light plant is projected by capitalists from San Francisco.

SANTA ANA, CAL.—It is stated that the Edison Electric Co. has been granted an extension of three months from Dec. 12 in which to begin work on its proposed plant.

SANTA MONICA, CAL.—Bids are wanted by the city clerk for lighting the street, etc., with 42 2,000-c. p. arc lights for one, three or five years, from Jan. 1. At present the Santa Monica Electric & Power Co. has a contract.

ROSWELL, N. MEX.—The trustees on Nov. 20 granted an electric light franchise to George F. Blashek for a period of 50 years.

GREENWOOD, B. C.—The people of this place have voted to grant a franchise for a plant and electric road to Duncan McIntosh, of the Winnipeg mine, and Geo. Collins, Mgr. Golden Crown mine. Work on the plant and railway will begin at once, according to reports.

VANCOUVER, B. C.—Fred. Peters, ex-Premier of P. E. I., Victoria, B. C., and E. J. Fador have applied for permission to utilize the tides in Vancouver to generate power for Vancouver, New Westminster, etc.

ENGLAND.—The following towns propose to build plants: Bootle, to cost $80,000; Heckmondwike, $70,000; Bedford, $200,000; Hanley, $25,000 and Brookwood Asylum $27,000; Maryport Urban District Council, Nantwich Urban District Council, Kendal Corporation, Witney Urban District Council, Elland Urban District Council, Exmouth Urban District Council, Cleethorpes-with-Thurnscoe Urban District Council, Sowerby Bridge Urban District Council, and Gosport and Alverstoke Urban District Council, Barmouth District Council, Newark Town Council, Sudbury Town Council, Oswestry Town Council and Berwick (Edmundsons, Limited), St. Anne's Council. It has been decided to install a plant at Malton at a cost of $50,000, it being expected that $200,000 will be required to complete it. The Leeds Council intends to expend $150,000 on extensions.

PADUA, ITALY.—A company is reported as being formed to build a water power plant on the Piave and Cellina rivers.

GLOUCESTER, ENG.—Bids are asked until Dec. 28 for furnishing the materials and for erecting a plant. Robt. Hammond, Engr., 64 Victoria St., Westminster, London; G. S. Blakeway, Town Clk.

LONDON, ENG.—Bids are asked until Dec. 18 for furnishing the materials and for constructing a power plant, with a capacity of $10,000 HP., for the Midland Electric Co. Kincaid, Waller & Manville, Engrs., 29 Great George St., Westminster; G. Carpenter, Secy., 11 Cornhill, E. C.

BAKU, RUSSIA.—The Apscheron Electrical Co., recently incorporated, with a capital stock of about $875,000, will probably let contracts next year for electrical plants, according to reports.

NEW COMPANIES.—Citizens' Light, Heat & Power Co., Dundee, Ill.; $10,000; O. C. Fitts, F. Rossow, F. Johnson.

Norfolk Electric Co., Norfolk, Va.; $300,000; P. Warrington, Pres.

Trumbull Electric Co., Plainville, Conn.; increase of capital stock to $50,000; Frank T. Wheeler, Southington, Conn.; J. H. Trumbull, Plainville.

Norwich Gas & Electric Co., Norwich, N. Y.; $100,000; E. F. Kizer, Towanda, Pa.; J. H. Throop, Norwich; L. N. Blake, Elmira, N. Y.

Electric Car Lighting & Heating Co., Portland, Me.; $500,000; C. H. Morse, Pres., Cambridge, Mass.; W. M. Chapman, Treas., Needham, Mass.

Rochester Light & Power Co., Detroit, Mich.; $10,000; J. Winter, O. H. Lau, all of Detroit.

Colorado & Deadwood Mining & Milling Co., Colorado Springs, Col.; $3,000,000; J. F. Burns, C. L. Tutt, Colorado Springs.

Ridge Farm Electric Light, Heat & Power Co., Ridge Farm., Ill.; $5,000; E. A. Little, C. T. Lourig, Wm. Bedinger.

Citizens' Water, Heat, Light & Power Co., of Irvington, N. J., Irvington, N. J.; $100,000; William Clark, Carl Mueller, Ernest Boerger.

Niagara Electric Equipment Co., Niagara Falls, N. Y.; $20,000; W. L. Adams, Niagara Falls.; T. D. Macnoe, R. A. Kellogg, Buffalo.

Los Angeles Incandescent Vapor Light Co., Los Angeles, Cal.; $100,000; J. F. Turner, M. J. Blaisdell, E. Hill.

Merced Falls Gas & Electric Co., San Francisco, Cal.; $250,000; C. E. Green, A. F. Morrison, C. H. Shaw.

St. Helena Pure Water, Electric Light & Power Co., St. Helena, Cal.; $125,000; W. W. Lyman, C. Caspey, G. W. Schmidt, St. Helena.

Blissfield Electric Power Co., Blissfield, Mich.; $10,000; W. Schroder, C. F. Seeger, J. Bailey, Blissfield.

Newmarket Electric Light, Heat & Power Co., Newmarket, N. H.; $1,000; J. Pinkham, C. E. Tasker, A. C. Haines.

Tampa Electric Co., Tampa, Fla.; $500,000; G. J. Baldwin, Pres.; P. O. Knight, V-Pres.; E. Wadsworth, Secy. and Treas.

Standard Light & Heat Co., Dover, Del.; $200,000; R. S. Lawrence, E. A. Oldham.

American Power Transmission Co., New York, N. Y.; $500,000; S. A. Bennett, A. S. Fisher, T. N. Riprom.

West Side Light & Power Co., Charleroi, Pa.; $1,000, paid in $100; W. M. Murdock, J. H. Bowers, T. B. Hastings.

Gold Belt Consolidated Electric Co., Denver, Colo.; $300,000; consolidating the Victor Light, Water & Motor Co., the Gold Belt Electric Co., and the Fremont Electric & Power Co.: S. T. Smith, M. L. Stern, T. Keely, Denver.

Indiana Water & Light Co., Worthington, Ind.; $10,000; F. C. Spring, J. G. Search, Worthington.

BRIDGES.

PROVIDENCE, R. I.—Plans for a new drawbridge at Indian Point were submitted by the New York, New Haven & Hartford R. R. Co. to the Harbor Commissioners on Nov. 29. The proposed structure will be 227 ft. long, and the width of the new channel between the fenders is 80 ft. in the clear.

HARTFORD, CONN.—Sketches have been made by Ernest Flagg, Arch., Mills Bldg., New York, for the proposed new bridge across the Connecticut River between this city and East Hartford. A committee has been appointed by the mayor, consisting of one alderman, two councilmen and three citizens to confer with the board of commissioners of the Connecticut River Bridge and Highway District in regard to the matter. A. J. Meyer, Francis H. Richards, Rev. Jos. H. Twichell are members of the committee.

NEW LONDON, CONN.—The question of erecting an overhead bridge to cross the Consolidated tracks from Bank St. to the Groton Ferry is being considered by the ferry committee, according to reports.

ROCKVILLE, CONN.—The following bids have been received by the selectmen for constructing the new iron bridge at Vernon Ave.: New Jersey Iron Bridge Co., $1,341; Vermont Construction Co., $1,300; New England Structure Co., $1,419; King Bridge Co., $1,300; Harrington & Robinson, $1,373; Wrought Iron Bridge Co., $1,360; Canton Bridge Co., $1,403; F. R. Long Co., $1,438; Berlin Iron Bridge Co., $1,245 (accepted).

ALBANY, N. Y.—Bids are asked until Dec. 13 for constructing a steel lift bridge over the Erie Canal at Chapel St., Lockport; a lift bridge at Catherine and Almond Sts., Syracuse; for rebuilding a waste weir and spillways on the Erie Canal at Brockville, and for rebuilding culvert 59 under the Erie Canal, 6,700 ft. west of Main St., Brockport, as stated in our advertising columns. John N. Partridge, Supt. Pub. Wks.

BROOKLYN, N. Y.—The site of the proposed Newtown Creek bridge has been decided on. The cost of the structure will be about $600,000. The land and buildings to be condemned will amount to $500,000.

NEW YORK, N. Y.—Bids are asked by the F. R. Long Co., 320 Broadway, for furnishing granite bridge ashlar to be delivered by April 1, 1900, as stated in our advertising columns.——The board of public improvements on Nov. 30 approved the plans prepared by Bridge Commissioner Shea for two proposed bridges across the East River, one of which will extend from Peck Slip, Manhattan, to Washington St., Queens, to cost about $15,833,000, and the other will span from 60th St. over Blackwell's Island to Long Island City, at $12,548,500.

PHILADELPHIA, PA.—Chief Webster, of the bureau of surveys, and of the council's survey committee, it is said, will recommend an appropriation of $150,000 out of the $600,000 appropriation for bridges, for the completion of 33d St. bridge. The cost of completing the structure is estimated at $270,000, and the remaining $120,000 will be asked of the bureau of surveys.

WAYCROSS, GA.—Bids are asked by the county commissioners until Dec. 16 for constructing a bridge across Kettle Creek, 320 ft. long; an extension to the iron bridge on the north side of the Satilla River, 400 ft. long, and a 500-ft. bridge over the Slough, according to reports.

SHREVEPORT, LA.—Bids are asked until December for constructing four bridges (wooden?), according to reports. P. Youree, Pres. Jury.

KINGSTON, TENN.—S. M. French, cashier of the T. C. Ry. Co., writes us that the company proposes to construct a railway bridge over Clinch River, near Kingston, to cost about $80,000.

CHATTANOOGA, TENN.—Local papers state that John W. Thomas, Pres. Nashville, Chattanooga & St. Louis Ry. Co., has offered to construct a viaduct over the Nashville, Chattanooga & St. Louis Ry. and the Western & Atlantic Ry. on Market St., at a cost of $50,000. The question of eliminating this grade crossing is being considered, and Mayor Wassman has asked the council to appoint a committee of five from that body to receive the official report of Robt. Hooke, Cy. Engr.

CLEVES, O.—The county commissioners have instructed County Engineer Krug, Cincinnati, to prepare estimates for a new plate girder bridge over Dry Fork Creek, on the Harrison road, to be 20 ft. wide. The Cincinnati, Lawrenceburg & Aurora Electric St. Ry. has agreed to pay $3,500 toward the construction. The piers of the present structure will be used for the new bridge.

CLEVELAND, O.—City Engineer Ritchie has recommended to the council's committees on appropriations and finances the construction of a rolling lift bridge, similar to the structure being erected by the C., C., C. & St. L. Ry. on the lower flats near Columbus and British Sts. The proposed structure, which will be built to replace the Middle Seneca bridge, will be 140 ft. long. An ordinance appropriating $100,000 for the improvement has had its first reading in the council.——The question of erecting a bridge for the street car tracks over the roadway in the boulevard north of Wade Park is being discussed by the Little Consolidated Co. and the park commissioners.

GAHANNA, O.—The county commissioners have decided to construct a bridge over the Big Walnut, in this town, to replace the structure washed away by the high waters. The structure will have two spans, and will be 168 ft. long and 22 ft. wide, to cost about $30,000.

MANSFIELD, O.—Bids are asked until Dec. 16 for the purchase of $20,000 in bridge bonds, according to reports. Chas. W. Fritz, Audr.

TOLEDO, O.—The question of constructing either a bridge or tunnel from the east to the west side of the river at Jefferson St. is being discussed. W. F. Brown, Cy. Engr., is said to have favored a tunnel, which would be 2,800 ft. in length, and would cost about $952,000. A bridge would cost about $600,000.

INDIANAPOLIS, IND.—The board of works has received a petition from the property owners for a bridge over the White River at New York St.

SAGINAW, MICH.—H. E. Terry, Cy. Engr., writes us that plans are being prepared for a bridge across the Saginaw River, to cost about $150,000, and will be finished about Jan. 1, when bids will be asked for the construction.

CHICAGO, ILL.—Commissioner of Public Works McGann has submitted the plans prepared by the city engineer for the projected joining of the north and south side boulevard systems to the council, in compliance with the order passed last July. The plans call for either a tunnel, estimated to cost about $5,000,000, or a viaduct and bridge that will cost about $2,000,000, of which two railway companies are expected to pay $500,000. The length of the tunnel would be about 3,300 ft., and the viaduct 3,900 ft., with a bridge 185 ft. wide.

TISKILWA, ILL.—Maj. W. L. Marshall, U. S. Engr., received the following bids Nov. 24 for manufacturing and erecting four single-track and one double-track steel highway bridges over the Illinois & Mississippi Canal, near Tiskilwa and Wyanet, Ill.: all riveted:

Bidder.	Bridges Nos. 5, 7, 8, 9, each.	No. 6.	Total.
Massillon Bridge Co., Toledo	$2,780	$3,880	$15,000*
Wis. Bridge & Iron Co., Milwaukee	3,280	4,000	17,120†
Toledo (O.) Bridge Co.	2,500	3,400	13,400§
J. G. Wagner Co., Milwaukee	2,700	3,400	14,200‡
Chicago Bridge & Iron Works	2,565	3,430	13,690‡
King Bridge Co., Cleveland, O.	2,600	3,650	14,050‡
Union Bridge Co., New York	3,800	5,300	20,500‖

*Warren pony truss. †Warren low truss. §High truss. ‡Low truss. ‡Warren girder. ‖Pony truss.

MILWAUKEE, WIS.—The question of constructing a bridge across the Milwaukee River at Cedar and Biddle Sts. is being agitated. Commissioner Schoenecher, of the board of public works, is said to be in favor of the project. The city engineer asks for the reconstruction of the old bridges and a new bridge to replace the recent structure at Grand Ave.

PINE CITY, MINN.—Bids are asked until Dec. 16 for constructing a bridge across Snake River, according to reports. Robt. Wilcox, Recdr.

OMAHA, NEB.—The contract for constructing the 16th St. viaduct, estimated to cost $200,000, has been let, and work will commence at once. The construction of the 24th St. viaduct will begin next fall, to cost $150,000.

OZARK, ARK.—Bids are asked until Dec. 20 for constructing a steel bridge over Big Mulberry Creek, 270 ft. long, with one span 150 ft. long and one 120 ft. in length, on three tubular steel piers, according to reports. John T. Greer, County Comr.

CALVERT, TEX.—The county commissioners have awarded to Contractor Rhodes, of Waco, a contract for erecting an iron bridge over the Brazos River at Black's Bridge crossing, to be completed by July 1, 1900.

COLUMBUS, TEX.—Local papers state that the commissioners' court of Colorado county on Nov. 21 awarded contracts to construct a bridge over the river at Columbus, at $16,700; a bridge across the Colorado River at Red Bluff, at $9,776, and one over Cummins Creek, at a cost of $3,000.

DENVER, COLO.—M. J. Patterson has received the contract for constructing the preliminary work on the South 14th St. bridge, at $6,460.

DENVER, COLO.—Bids are asked by the state engineer until Dec. 30 for constructing a combination or steel highway bridge over the Grand River, one mile from Dotsero on the Denver & Rio Grande R. R., which will have one 180-ft. span and two spans of 50 ft. with 14-ft. roadway.

ASOTIN, WASH.—The council has received plans for the proposed bridge (wooden?) to be built over the Asotin Creek, at the Meador crossing.

MONTESANO, WASH.—The county commissioners have awarded the contract for constructing a steel bridge over the Chehalis River, near the Block House Ferry, to the Seattle Bridge Co., Seattle, Wash., at $7,500.

WOODLAND, CAL.—Local papers state that the supervisors of Yolo and Solano counties have agreed to construct two bridges across Putah Creek, one to be located two miles west of this place and the other at the old Stephenson site, north of Silveyville. Each structure will cost $10,000, and one will be built at once and the other next spring.

BUILDINGS.

ALFRED, ME.—Rev. John Parsons, of Brookline, Mass., and Charles Parsons, of New York, will erect a 2-story brick library building. A. H. Bowdick, Arch., 112 Water St., Boston.

MEREDITH, N. H.—Benj. F. Smith, Beverly, Mass., has offered to build a library building to cost about $10,000.

BOSTON, MASS.—Miss Josephine W. Chapman, Grundman Studio, is preparing plans for the Worcester Woman's Clubhouse.——The Medical Library will erect a new 3-story brick building on Back Bay Fens, near Boylston St. Shaw & Hunnewell, Archs., 9 Park St.——A. Warren Gould, 2a Beacon St., has prepared plans for a 4-story brick church and residence building at Berkeley and Chandler Sts., to cost about $40,000.

FALL RIVER, MASS.—Louis Destremps, Section B, Granite Block, has prepared plans for a school building on Bassett St. for the Notre Dame Parish, to cost about $60,000.

NEW BEDFORD, MASS.—Plans have been prepared by T. F. Houghton, 213 Montague St., Brooklyn, N. Y., for a school building for St. Lawrence R. C. Church. Rev. Fr. Smythe, Rector.

NORTH ADAMS, MASS.—The Richmond Estate will erect a theater to seat 1,400 persons in the rear of the Richmond Hotel. Address C. Q. Richmond.

ARVERNE (L. I.), N. Y.—Plans have been filed by Benj. Weil for a 5-story hotel building, 70 x 166 ft., on Storm Ave., to cost about $85,000.

BROOKLYN, N. Y.—Jas. Tully, Deputy Fire Comr., will ask for an appropriation of $300,000 for building quarters for several fire companies now in rented buildings.

BROOKLYN, N. Y.—The followings bids were received by the department of education Dec. 4 for erecting two school buildings: School No. 124—Luke A. Burke, 402 W. 59th St., N. Y., $146,750; J. T. Woodruff, Long Island City, $149,897; P. J. Walsh, 503 5th Ave., $155,000; Kenny & Henningham, 6 Court Square, Brooklyn, $155,000; K. A. Murphy, 96 Linwood St., Brooklyn, $156,000; W. & T. Lamb, 99 Nassau St., N. Y., $156,626; John Thatcher, 674 10th St., N. Y., $159,000, and R. F. Kelly & Son, 359 Fulton St., N. Y., $169,000. School in Whitestone—J. D. Murphy, 1181 Broadway, N. Y., $132,970; J. T. Woodruff, $137,982; H. Probst, 1180 Broadway, N. Y., $144,850; John Thatcher, $147,300; Luke A. Burke, $157,000.

NEW YORK, N. Y.—Plans have been filed by Geo. Hornburger, 62 E. 70th St., for four 6-story brick flats, 25 x 90 ft., at 341 E. 12th St., to cost about $60,000. Kurtzer & Rohl, Archs., 194 Bowery; by New York Telephone Co., 15 Dey St., for a 6-story brick exchange building, 100 x 53 ft., at 18th St. and Irving Pl., to cost about $150,000. C. L. W. Eidlitz, Arch., 1123 Broadway; by Wm. W. Astor, London, Eng., for an 8-story brick office building, at 13th St. and Broadway, to cost about $400,000. Clinton & Russell, Archs., 32 Nassau St.; by O. C. Moore, 433 W. 147th St., for a 6-story brick flat house, 26 x 89 ft., at 150th St. and St. Nicholas Ave., to cost about $45,000. Moore & Landsiedel, 148th St. and 3d Ave., Archs.; by R. H. Horner, 59 W. 68th St., for a 7-story brick warehouse, 50 x 104 ft., at 109 W. 24th St., to cost about $50,000. Harding & Gooch, Archs., 253 Broadway; by T. E. Greacen, 6 W. 50th St., for five 3-story frame tenements, 20 x 61 ft., at Wilkens Place and Jennings St., to cost about $30,000. Fred. Jaeger, Arch., 778 Tremont Ave.; by W. Stearns, 156 5th Ave., for a 6-story flat house, 35 x 86 ft., at 137 W. 45th St., to cost about $130,000. C. A. Rich, Arch.; by Gundlach & Koch, 204 E. 86th St., for a 7-story brick flat house, at 113th St. and St. Nicholas Ave., to cost about $140,000. J. Hauser, Arch., 1441 3d Ave.; by Polstein & Cohen, 315 E. 79th St., for a 7-story brick flat, at 17th St. and Livingston Place, to cost about $150,000. M. Bernstein, Arch., 245 Bowery.

NEW YORK, N. Y.—It is stated that the trustees of the Teachers' College have $350,000 on hand for erecting a building for the Horace Mann School. Plans have been drawn.——Geo. B. Post, 33 E. 17th St., has been selected as architect for the new Stock Exchange building.——Chas. Weisbecker, 268 W. 125th St., will erect a brick residence at 218th St. and Broadway, to cost about $50,000. F. L. Shea, Arch.——The trustees of Mt. Sinai Hospital will erect a 4-story ward building, at 5th Ave. and 100th St., to cost about $150,000. A. W. Brunner, Arch., 36 Union Square East.——It is stated that the police commissioners will ask for $475,000 to build five new police stations.——A new jail is contemplated to replace the present one on Raymond St., to cost about $250,000.

TROY, N. Y.—It is stated that the N. Y. C. & H. R. R. Co., the Fitchburg R. R. and the D. & H. Co., will erect a union depot, to cost about $1,000,000.

WHITESTONE (L. I.), N. Y.—Plans have been filed for a 3-story brick school building, to cost about $90,000.

HACKENSACK, N. J.—The Hackensack Bank & Trust Co. has filed plans for a 4-story brick office building, to cost about $65,000. Mowbray & Uffinger, Archs., 49 Liberty St., New York.

SOUTH ORANGE, N. J.—A. B. Farson, of Farson, Leach & Co., 115 Dearborn St., Chicago, Ill., will erect a residence here to cost about $115,000. G. W. Maher, Arch., 820-218 La Salle St., Chicago, Ill.

TRENTON, N. J.—The question of erecting an armory and arsenal building for the 2d Regiment to cost about $400,000 is being discussed.

AMBLER, PA.—The Keasbey & Mattison Co. will erect a 5-story brick building at Maple and Chestnut Sts., to cost about $50,000.

KNOXVILLE, PA.—J. A. Lang has prepared plans for a church building for the United Presbyterian Church.

LANCASTER, PA.—The contract for erecting the Y. M. C. A. building has been let to H. F. Wohlsen, 429 Green St.

PHILADELPHIA, PA.—Bids are asked, according to reports, by the Electric Storage Battery Co. for a brick addition, 120 x 125 ft., at 19th St. and Allegheney Ave.——The Board of Managers of St. Mary's Hospital has decided to erect a new building at 1737 Frankford Ave.——The contract for erecting the foundry building for the Schuylkill Iron & Steel Co., at 30th St. and Gray's Ferry Road, has been let to Chas. Craig, 2362 Columbia Ave.——Fire destroyed, Nov. 29, nearly a block of buildings at 8th and Filbert Sts.; loss, about $2,000,000.——The University of Pennsylvania has received a donation of $250,000 for erecting a physics laboratory.

PHILADELPHIA, PA.—It is proposed to expend $150,000 on school buildings in the 40th Ward. Senator W. L. Elkins will establish a college for girls.——Plans are wanted by the board of directors of the Philopatrian Institute for a new stone building. Bids will be asked shortly.——Wm. Macauley, 1530 Chestnut St., is preparing plans for a seven-story brick and stone building to cost about $250,000.——The labor organizations will form a stock company and erect a $100,000 building.

PITTSBURG, PA.—W. A. Thomas, Carnegie Bldg., has prepared plans for a 3-story brick apartment house in the East End.——W. Y. Brady, 32 Stevenson Bldg., has been selected as architect for the new public safety building.

PITTSBURG, PA.—W. T. Ballantyne has designed a row of houses for C. H. Mohrhoff, to be erected at Ohio and Chestnut Sts., at a cost of $60,000.——S. A. Barr, 314 4th Ave., is preparing plans for a residence.——Edwin Carrell, 907 Hamilton Bldg., has made plans for a house on Highland Ave. to cost about $18,000.

ONANCOCK, VA.—Fire destroyed the entire business section of this town Dec. 1; reported loss, about $100,000.

CLEVELAND, O.—The Country Club will soon erect a new club house on Lake Colts, to cost about $50,000.

GREENSBORO, N. C.—Plans are being prepared for a town hall, to cost about $35,000.

COLUMBIA, S. C.—F. P. Milburn, Winston, N. C., is preparing plans for a new city hall building. Bids will soon be asked.

ATLANTA, GA.—The following bids were received Nov. 27 for erecting an annex to the court house, (1) being for granite, (2) for marble, (3) for oolitic limestone, and (4) for sandstone: Butler-Ryan Co., Globe Bldg., St. Paul, Minn., (1) $132,000; (2) $119,931; (3) $108,000; (4) $111,000. Gude & Walker, 18 E. Ellis St., Atlanta, Ga., (1) $111,500; (2) $113,300; (3) $101,200; (4) $103,700. L. P. Hazen & Co., Cincinnati, O., (3) $104,400; (4) $104,400. F. P. Heffner, Atlanta, Ga., (1) $116,500; (2) $114,140; (3) $104,000; (4) $108,180. Geo. B. Hinman, Atlanta, Ga., (1) $121,500; (2) $119,500; (3) $108,000; (4) $113,600. McIlvaine, Unkefer Co., Second Natl. Bank Bldg., Pittsburg, Pa., (3) $104,387. Murch Bros. Con. Co.; 816 Olive St., St. Louis, Mo., (1) $133,105; (2) $131,135; (3) $121,395; (4) $125,235. Texas Con. Co., Ft. Worth, Texas, (1) $133,000; (2) $129,000; (3) $117,000. Chas. McCaul, 10 N. 11th St., Philadelphia, Pa., (1) $135,811. The contract was let to Gude & Walker, at $99,300, on bid (3), deducting $1,900 for changes in plans.

JACKSONVILLE, FLA.—J. N. Carnes will erect a business block on Adams St., according to reports.

NASHVILLE, TENN.—The 5-story frame warehouse of B. S. Rhea & Co. was destroyed by fire Nov. 25; reported loss, about $75,000.

LOUISVILLE, KY.—Mrs. P. Wooldridge will erect a 6-story brick office building at 5th St. and Court Pl., to cost about $50,000. Kenneth McDonald, Arch., 349 W. Main St.

YOUNGSTOWN, O.—It is stated that the Pennsylvania R. R. Co. will erect a large freight station.

DETROIT, MICH.—Malcomson & Higginbotham, Moffat Bldg., are preparing plans for the new Eastern high school building, to cost about $125,000.

CHICAGO, ILL.—Plans have been filed by Armour & Co., 205 La Salle St., for a 5-story brick warehouse at Janes and Benson Sts., to cost about $70,000; by Wm. P. Doer, for 3-story brick flats at 410 E. 60th St., to cost about $90,000; by E. J. Lehman Estate for a 4-story brick warehouse at 1417 State St., to cost about $50,000.

ELGIN, ILL.—New bids will be asked Dec. 7 for erecting an infirmary building for the Illinois Northern Hospital for the Insane. Bids were received last week, but were rejected, as they ranged from $46,000 to $60,000, while the appropriation is but $37,000.

BARABOO, WIS.—The county supervisors have decided to authorize the building of a courthouse, to cost about $100,000. J. M. True, Chn. Bldg. Com.

EAU CLAIRE, WIS.—The hospital board has voted to borrow $75,000 for erecting an insane asylum.

ALEXANDRIA, MINN.—Bids are asked by the county auditor, according to reports, until Jan. 4, for erecting a county jail.

MAYVILLE, MINN.—W. C. Albrandt, Fargo, Minn., is preparing plans for a new city library building.

ST. PAUL, MINN.—The grocery warehouse of Griggs, Cooper & Co., on E. 3d St., was destroyed by fire Nov. 30; loss, about $500,000.

CLAY CENTER, KAN.—C. J. Holland, 727 Kansas St., Topeka, is preparing plans for a courthouse, to cost about $30,000. Bids will be opened in March.

MINNEWAUKON, N. DAK.—The county commissioners will consider plans for the new court house to cost about $20,000. A. A. Lindahl, County Audr.

FORT WORTH, TEX.—The plans of H. M. Green, Dallas, Tex., for the $50,000 Carnegie library building have been accepted.

GONZALES, TEX.—Bids are asked until Dec. 12 for a 2-story brick storehouse. Alfred Giles, Arch., 114 W. Houston St., San Antonio.——Bids are asked until Dec. 14 for erecting a 3-story hotel building for the Gonzales Improvement Co.

HOUSTON, TEX.—Levy Bros. are having plans prepared for a 3-story brick building at Main and Preston Sts.

ANADARKO, OKLA.—Bids are asked for furnishing quantities of building materials at several Indian reservations. J. F. Randlett, U. S. Indian Agent, Anadarko.

COLORADO SPRINGS, COLO.—President Slocum has approved the plans for the science building of the Colorado College, to cost about $100,000.

BOISE, IDAHO.—Bids are asked until Feb. 1 for erecting a government building. J. K. Taylor, Supervising Arch., Washington, D. C.

ST. HELENA, CAL.—Bids are asked until Dec. 12 for constructing a vault in the town hall. Otto Behrns, Town Clk.

VENTURA, CAL.—Bids are asked until Dec. 19 for altering and adding to the court house. A. S. Kenagy, County Clk.

MONTREAL, QUE.—It is stated that the Harbor Board has granted the Connor's syndicate of Buffalo, N. Y., several sites for grain elevators and piers.

LEEDS, ENG.—The town council will soon apply for permission to borrow about $1,500,000 for the construction of a new hospital building.

LONDON, ENG.—John Mowlem & Co., Grosvenor Wharf, 19 Grosvenor Road, S. W., have been awarded the contract, at about $287,965, for constructing the retaining walls and foundations for the proposed new war office in Whitehall.

WEST HAM UNION, ENG.—Bids are asked until Dec. 13 for erecting an infirmary at Leyton, Essex, to accommodate about 672 patients.* Francis J. Sturdy, Arch., 44 Finsbury Pavement, London, E. C.; F. E. Hilleary, Clk., Union Road, Leystonstone, E.

WATER-WORKS.

FAIRFIELD, ME.—A company is reported to have been formed to supply this place with water.

PEAK'S ISLAND, ME.—R. K. Gatley, Pres. Peak's Island Water & Light Co., Portland, Me., writes us that surveys, plans and estimates for the works are prepared. The 8-in. well is now 185 ft. deep, and will be driven until a yield of 100 gallons is secured. Press reports state that the company will erect a standpipe to be 50 x 36 ft., and not less than 4,150 ft. of 8-in. and 6,150 ft. of 6-in. pipe will be laid, and 20 hydrants set for fire protection in Peak's Island.

LOWELL, MASS.—The water board is reported as in favor of utilizing Beaver Brook for an increased water supply.

EAST HAMPTON, CONN.—E. P. Angus, Cy. Surv., of Middletown, Conn., and Henry Geer, of Norwich, Conn., are reported as making surveys for a new reservoir.

HARTFORD, CONN.—J. S. Chase writes us that the site for the new reservoir has not yet been selected.

NORWICH, CONN.—We are informed that a report for an increased supply will be submitted early in January. Address Aldermen Herman and Stoddard.

FORT GREBLE, R. I.—Bids are asked until Dec. 19 for building a 30,000-gallon steel tank and trestle, as stated in our advertising columns. H. P. Young, Q. M., 209 Thames St., Newport, R. I.

BROOKLYN, N. Y.—Bids are asked until Dec. 14 for furnishing taps, lead, shovels, castings, nozzles, etc., and also furnishing and laying mains in six streets in Manhattan. Wm. Dalton, Comr. Water Supply, 21 Park Row, Manhattan.

STAMFORD, N. Y.—The Stamford Water-Works Co. has let the contract for a filter plant to the Continental Filter Co., 35 Wall St., New York.

UTICA, N. Y.—The question of municipal works is said to be under consideration by the citizens. Ex-Mayor J. G. Gibson may be addressed.

NEWARK, N. J.—The Essex Falls Electric Light & Water Co. has been incorporated with a capital stock of $10,000, by Herman Wendell, Wayne, Pa.; Chas. O. A. Maule, Essex Falls, N. J., and others.

ERIE, PA.—The board of water commissioners is reported as considering the question of changing the course of Mill Creek, so as not to mingle with the waters of the bay.

HAWLEY, PA.—The Paupack Water Co. has been incorporated with a capital stock of $6,000 by John J. Landers, Treas.; John P. Butler and Jos. Newhouse, Jr., all of Scranton, Pa.

MILROY, PA.—The Milroy Water Co. has been incorporated with a capital stock of $1,000, of which $100 is paid in, by John A. Camp, Albert Thompson and H. C. Kulp. The Burham Water Co. and the Logan Spring Water Co. have been incorporated by the same parties with the same capital stock.

SEBRING, PA.—The question of building works and an electric plant is reported as being considered.

HANCOCK, MD.—Plans for works and an electric plant is reported as being prepared.

HYATTSVILLE, MD.—The question of again submitting the proposition to build works to cost $25,000 to the voters in May is being considered.

BUCHANAN, VA.—The Buchanan Water-Works Co. has been incorporated with a capital of $10,000, by O. E. Obenshain, of Buchanan, and S. B. Mosby, of Roanoke.

ELKINS, W. VA.—Bids are asked until Dec. 30 for constructing works, as stated in our advertising columns; estimated cost, $30,000. D. G. Adelsberger, Engr., 722 Pennsylvania Ave., Baltimore, Md.; Jas. A. Bent, Mayor.

GASTONIA, N. C.—Bids are asked until Jan. 11 for constructing works, an electric plant and a sewerage system, as stated in our advertiseing columns. J. L. Ludlow, Engr., Winston; J. F. Love, Clk.

GOLDSBORO, N. C.—The question of purchasing the works will soon be taken up by the council. Arbitrators will be appointed.

JACKSON, GA.—C. S. Maddox, Mayor, writes us that nothing further regarding the issue of $20,000 in bonds for works recently voted, will be done until 1900.

TUSKEGEE, ALA.—Efforts are being made to secure funds to increase the water supply for the buildings for the Tuskegee Normal and Industrial Institute; estimated cost, $7,000. Better lighting and heating systems are also wanted. Address W. H. Baldwin, Jr., Pres., L. I. R. R. Co., 32 Nassau St., New York, or Warren Logan, Treas.

BUCYRUS, O.—A reservoir to hold about 150,000,000 gallons is being built two miles east of here for the Bucyrus Water Co. The high water mark will be 30 ft. above the floor of the pumping station. The reservoir will be connected with the pumps by a wooden stave pipe 14 in. in diameter manufactured by the Michigan Pipe Co., Bay City. There will be about 70,000 cu. yds. of soil stripping and 50,000 yds. in the dam. The reservoir is formed by constructing an earthern dam across the valley of a brook emptying into Sandusky River. All buildings in the quarter section where the reservoir is located are to be removed and especial care and attention is being given to the removal of soil and earth in the vicinity of buildings. All materials for the construction of the work have been purchased from the Michigan Pipe Co. Surveys and plans were made by G. L. Wells, Bay City, Mich., assisted by A. J. Wells, Cleveland, O., both of whom are superintending the construction. F. P. Kaler, Supt.; H. B. Smith, Secy. and Treas., Bay City.

CINCINNATI, O.—Superintendent Boeh has asked the board of city affairs for permission to spend $15,000 for more meters for the Front St. pumping station.

CINCINNATI, O.—A. J. Henkel & Bro., 621 Main St., have been ordered to proceed with the construction of the reservoir, to cost about $1,000,000, awarded to them some time ago.

CLEVELAND, O.—Local papers state that bids will be asked at once by the water department for constructing the Coe St. pumping station, and for furnishing two or four pumps.

PIQUA, O.—A report has been submitted showing that it will cost the city about $66,000 to remodel the works. Henry Flesh and Engineer Whitlock of the City Trustees may be addressed. Mr. Flesh writes that the appropriation cannot be secured until spring.

TOLEDO, O.—Bids are asked until Dec. 18 for sinking an artesian well. W. O. Holst, Cy. Clk.

WARREN, O.—The question of a better water supply for this city and other Mahoning Valley towns is being considered, according to reports. E. P. Dickey, Cy. Engr.

ZANESVILLE, O.—The question of putting in a filtration plant is being considered; estimated cost, $25,000.

PORTLAND, MICH.—This place for the second time has voted to purchase the works for $20,000. O. E. Robinson, Pres., writes that a well will be sunk and an electric pump purchased.

SARANAC, MICH.—An election has been called to vote on the question of issuing bonds for works.

BYRON, ILL.—Bids are asked until Dec. 12 for constructing works, according to reports. D. W. Mead, Engr., First National Bank Bldg., Chicago; J. C. Thompson, Pres.

CHICAGO, ILL.—Bids are asked until Dec. 14 for furnishing water pipe, special castings, etc., and until Dec. 16 for furnishing cast-iron rings and covers for hydrants. L. E. McGann, Comr. Pub. Wks.

KENNEY, ILL.—Bids are asked until Dec. 20 for constructing works to cost about $12,000. C. Brelsford, Village Engr.; J. S. Byerly, Clk.

CEDAR RAPIDS, IA.—An election will be held Dec. 18 to vote on the question of municipal works, noted in our issue of last week.

APPLETON, WIS.—C. H. Wells, of the Chicago & Lake Superior Telephone Co., is reported as preparing a report for the municipal ownership of the works.

BARABOO, WIS.—W. G. Maxey, Receiver Baraboo City Water-Works Co., is reported to have been granted permission to spend $10,000 for improving the works. Most of the money will be spent on the pumping station.

GRAND RAPIDS, WIS.—An election is reported to have been held Dec. 5 to vote on the question of city works, to cost $46,328.

TWO RIVERS, WIS.—Plans for works and an electric plant are being prepared by C. F. Loweth, 94 E. 4th St., St. Paul, Minn. An election to vote on the question of issuing $50,000 in bonds will be held in early spring.

ARKANSAS CITY, KAN.—Spitzer & Co. are reported to have purchased the $90,000 of 5% bonds for the purchase of the works.

LAMAR, MO.—The Lamar Light & Water Co. has been incorporated, with a capital stock of $60,000, by A. L. White, M. T. Davis and I. J. Lites.

ROSEDALE, MO.—This place is reported to have voted for works to cost about $25,000.

ST. CHARLES, MO.—Hiram Phillips, Lincoln Trust Bldg., St. Louis, has completed plans, estimates, etc., for the proposed new works, to cost about $113,000. There will be a steel intake tower 10 x 60 ft. to be built, 400 ft. out in the river, an intake well 8 x 35 ft., a pump well 14 x 15 ft., a pumping station with three pumps and two boilers of 80 HP. each; three stone settling basins, 75 x 100 ft. and 20 ft. high, about 10¼ miles of 4 to 12-in. pipe, 100 hydrants, two 12-in. valves, two 10-in. valves, nine 8-in. valves and 18 6-in. valves, a stand-pipe 20 x 80 ft., etc. Address City Engineer Edwards and Dr. J. E. Bruere, Chn. Citizens' Water Com.

SPRINGFIELD, MO.—The Springfield Water Co. has purchased the Valley Mill spring and will build a large reservoir there. Geo. P. Westcott, Pres., Portland, Me.

AUSTIN, TEX.—The question of putting in an auxiliary steam pump and the advisability of buying the old works is being considered. Address Superintendent Patterson, Mayor McCall, or Alderman Glass.

LONGVIEW, TEX.—The mayor writes us that no steps have been taken towards securing works as has been reported; population, 3,500.

PALESTINE, TEX.—The International & Great Northern R. R. Co., it is stated, will build works, to have a 45,000,000-gallon reservoir, a steel tank, etc., and an electric plant. Leroy Trice, Gen. Supt.

PONCA CITY, OKLA. TER.—This city is reported to have voted for works to cost about $25,000.

STILLWATER, OKLA.—W. R. McGeorge writes us that plans for works are being prepared. It is expected to issue bonds about January. The contract will not be let before January or February.

MUSCOGEE, IND. TER.—J. W. Sanders & Co., Muskogee, has submitted the lowest bid, at $151,527, cash, for constructing works. Bids were also submitted by J. H. Syron, Chicago, Ill.; and E. M. Bent, Chicago, at $157,500, cash, or $170,100 in 6% bonds, and $195,619 in 6% bonds, respectively. H. V. Hinckley, Consult. Engr., Topeka, Kan.; W. R. Shackleford, Recdr.

DENVER, COLO.—Sam'l M. Gray, 10 Weybosset St., Providence, R. I., has been asked by the city to examine the works of the Denver Union Water Co., with a view to the city purchasing it. It has not yet been decided whether to purchase the present works or to build a new plant. Martin Currigan is interested in a Boston company, which is expected to offer to build works for about $4,300,000. Address Mayor Johnson, or Alderman Murray.

STERLING, COLO.—The question of building works is being considered.

WINDSOR, COLO.—This place voted Nov. 28 to issue $15,000 in bonds for works, according to reports.

PORTLAND, ORE.—The question of a better water supply for the north end of the city is being considered. Address Councilman Corbett, Chn. Water Com., and Dolph.

BRYNMAWR, CAL.—The Brynmawr Water Co. has been incorporated with a capital stock of $40,000, of which $19,000 is paid in, by H. L. Drew, of San Bernardino, Cal.; J. E. Scott, Redlands, Cal., and J. G. Davis, of Brynmawr.

JOHANNESBURG, CAL.—The Randsburg Water Co. has been incorporated with a capital stock of $100,000, by H. A. Darling, A. E. Snow and L. L. Cory.

ORLAND, CAL.—Geo. L. Colgate, Editor Orland "Register," writes us that this place has no works, but that there is a good opportunity for the construction of such an improvement. The irrigation system is being extended and improved.

SELMA, CAL.—The Coalinga Water Co. has been incorporated with a capital stock of $50,000 by M. Sides, of Selma, T. G. Hart, of Fresno, Cal., and T. D. Easton, of Los Angeles, Cal.

WHITTIER, CAL.—The Lowell Land & Water Co. has been incorporated with a capital stock of $50,000, by W. H. Landreth, R. G. Hiatt and O. L. Baldwin.

PHOENIX, ARIZ.—The city clerk writes us that no works or sewerage system has yet been ordered. The matter of cost is in the hands of a committee of taxpayers to report to council, who will then order an election to vote on the question of issuing bonds. Ernest Abs Hagen, Engr., Los Angeles, Cal.; W. A. Farish, Cy. Engr.

NOME CITY, ALASKA—The Nome City Water Co. has been incorporated with a capital stock of $250,000, of which $1,750 is paid in, by John Brynteson, Arthur M. Pope and R. L. Lyng.

HAMILTON, ONT.—The fire and water committee has adopted the report of the subcommittee recommending the laying of a third main and the extension of the filtration basin and that bids be asked at once. The proposed improvements, it is stated, will cost about $100,000. Address Chairman Wright, Alderman Stewart and City Engineer Barrow.

NELSON, B. C.—It is proposed to issue $15,000 in bonds, $8,000 of which is for works and $7,000 for an electric plant, according to reports.

BIRMINGHAM, ENG.—Bids are asked until Dec. 20 for furnishing and erecting three sets of vertical and triple-expansion, surface condensing steam pumping engines, three sets of three-throw plunger pumps, two Babcock & Wilcox boilers, surface condensers, engine, dynamo, etc., for the Elan water supply. Jas. Mansergh, Engr., 5 Victoria St., Westminster, London; Edward O. Smith, Town Clk.

MARGATE, ENG.—Bids are asked until Dec. 18 for furnishing cast-iron socket pipes, valves, boxes, hydrants, taps, etc. F. Stanley, Mgr. Water-Works; E. Brooke, Town Clk.

SEWERAGE.

SALEM, MASS.—G. A. Andrews writes us that this town is greatly annoyed by the Morocco leather industries in Peabody, which run their waste animal matter into the North River. The state board of health reports that no relief can be expected until this is cared for other ways, and efforts are being made to have the companies comply with the recommendations.

NEW BRITAIN, CONN.—W. H. Cadwell, Cy. Engr., writes us that he is preparing plans for sewage disposal by filtration.

BATAVIA, N. Y.—The council will soon consider the question of a new system. J. C. Holmes, Cy. Engr.

MOUNT VERNON, N. Y.—Bids are asked until Dec. 19 for constructing a drain and receiving basin with pipe connections in West 3d St., between 7th and 8th Aves. E. W. Fiske, Mayor; W. N. Hoyt, Cy. Clk.

NEW YORK, N. Y.—Bart Dunn, 321 E. 68th St., is said to have submitted the lowest bid, at $804,000, on Dec. 6.

for constructing a sewer in Broadway, from the city line to Riverdale Ave., and in Exterior St. to East 192d St., and through East 192d St. to the Harlem River. J. C. Rodgers & Sons, 340 E. 125th St., are considered the next lowest at about $825,000. The bids will be published next week.

NEW YORK, N. Y.—Bids are asked by the department of sewers, 21 Park Row, until Dec. 13 for constructing several sewers in Manhattan, Bronx and Brooklyn.

SAUGERTIES, N. Y.—R. S. Gibson, Pres., writes us that an election will be held Dec. 12 to vote on the question of building a system.

COLLINGSWOOD, N. J.—It is proposed to build a system, discharging into Newton Creek. Boyd McLean, Secy. State Sewerage Com., Trenton.

EAST ORANGE, N. J.—W. H. Reimer, Township Engr., writes us that plans for a 12 to 18-in. pipe sewer in Main St. have been ordered; estimated cost, $4,900.

ELIZABETH, N. J.—Bids are asked until Dec. 15 for constructing 1,000 ft. of 18 and 12-in. pipe sewer, etc. U. K. Thompson, St. Com.

JERSEY CITY, N. J.—The state sewerage commission has approved the plans for constructing a joint sewer, emptying into Arthur Kill, to have a capacity of 15,000,000 gallons.

TRENTON, N. J.—Bids are asked until Dec. 12 for constructing a sewer in 2d St. E. C. Murray, Cy. Clk.

WEST NEW YORK, N. J.—The question of constructing a system is being discussed.

PITCAIRN, PA.—Frease & Sperling, Borough Engrs., Wilkinsburg, Pa., write us that the council has rejected bids received Nov. 28 for the system as too high, and will readvertise. Address J. C. McGinniss.

SCRANTON, PA.—J. P. Phillips, Cy. Engr., has been directed to prepare plans for sewers in Court St., and Blair and Diamond Aves.

WILKESBARRE, PA.—The council will probably advertise for bids for completing the Empire sewer, the contract for which was taken away from Contractor E. H. Post. The contract for constructing a 42-in. brick sewer along Mill Creek to Canal St. has been let to Thomas J. Peters, at $35,283

YORK, PA.—The council has passed an ordinance providing for a loan of $350,000 for constructing a system.

GASTONIA, N. C.—Bids are asked until Jan. 11 for constructing a system, water works, etc., as stated in our advertising columns. J. L. Ludlow, Engr., Winston, N. C.; J. F. Love, Town Clk.

SALISBURY, N. C.—Bids are asked until Jan. 9 for furnishing pipe and for constructing about ten miles of 18 to 8-in. pipe sewers, as stated in our advertising columns. J. L. Ludlow, Engr., Winston, N. C.; S. F. Lord, Mayor.

NEW ORLEANS, LA.—J. S. Waterman, Mayor's Secy., writes that bids for sewerage, drainage, etc., to cost about $14,000,000 will be asked in about six months.

ALLIANCE, O.—Bids are asked, according to reports, until Dec. 15 for erecting a sewerage disposal plant at the Fairmount Childrens' Home. M. M. Southworth, Supt.

CLEVELAND, O.—Director of Public Works Rice is considering plans to build a large intercepting sewer along the property of the Lake Shore & Michigan Southern R.

COLUMBUS, O.—Plans for improving the system are being prepared by J. P. Force, Asst. Engr.

GREENVILLE, O.—The council will submit the question of issuing $80,000 in bonds for a system to the voters this month.

LAKEWOOD, O.—Local papers state that plans for the combined system will be submitted to the board of health for its approval. An election will probably be held next spring to vote on the question of issuing bonds, and the construction will be started later. Estimated cost, $117,777. By mistake this item was printed Lakewood, N. J., in our last issue. Prof. H. W. Elliott, Chn. Com.

TOLEDO, O.—W. F. Brown, Cy. Engr., has prepared plans for a 10 and 15-in. pipe sewer in 2d St. and the alley between Oswald St. and Kelsey Ave.

MARION, IND.—It is stated that Burt L. French, 261 P. O. Block, is preparing plans for a system at the county infirmary.

ST. PAUL, MINN.—Bids are asked until Dec. 11 for constructing sewers in Olum and Armstrong Sts. C. H. Bronson, Clk. Bd. Pub. Wks.

EL RENO, OKLA.—Mayor Hensley is quoted as saying that work on the new system will begin in about three months.

TERRELL, TEX.—It is stated that the Industrial Association is making efforts to have a system built either by private parties or the city.

EVERETT, WASH.—The people will vote on the question of issuing $60,000 in bonds for a system Dec. 29. C. N. Miller, Engr.

FAIRHAVEN, WASH.—H. L. Merrill, Cy. Clk., writes us that the question of a system is not being considered, as recently reported.

SEATTLE, WASH.—The council has ordered a sewer laid in East Cherry St., from Broadway to 12th Ave.

LONG BEACH, CAL.—The question of building a system is to be submitted to the city trustees.

POMONA, CAL.—E. Hinman, Pres. Bd. Trustees, writes us that an election will be called to decide the question of issuing bonds for a system.

SAN FRANCISCO, CAL.—An election will be held Dec. 29 to vote on the issue of $4,000,000 in bonds for a system. J. Z. Russell, Cy. Clk.

SANTA MONICA, CAL.—The city clerk has been directed to advertise for bids for a trunk sewer. Plans for draining are being prepared by T. H. James, Cy. Engr.

PHOENIX, ARIZ.—The city clerk writes us that the matter of cost of sewers is before a taxpayers' committee, who will report to the council, after which an election will be ordered. W. A. Farish, Cy. Engr.

FREDERICTON, N. B.—Alex. Burchill, Supt. Water-Works, writes us that the plan for a new system is being discussed.

HAMILTON, ONT.—Engineer Wingate has been directed to prepare plans, etc., for the construction of the Birch Ave. sewer.

MONTREAL, QUE.—The question of constructing a sewer in Aylwin St. is being discussed. P. W. St. George, Cy. Surv.

HAVANA, CUBA.—Reports state that the contract obtained by Michael J. Dady, Brooklyn, for constructing a system was rejected at a meeting of the council Dec. 5. It is believed that this finally disposes of the question.

GARBAGE DISPOSAL—STREET CLEANING

BROOKLINE, MASS.—Horace James, Chn. Selectmen, writes us that the following bids were received Nov. 20 for erecting a crematory and for destroying the dry waste: City-Wastes Disposal Co., 874 Broadway, New York, $1,875 a year, 10-year contract (accepted); Chas. E. Riley, Brookline, $2,000.

NEW YORK, N. Y.—Bids are asked until Dec. 12 for furnishing 28 two-horse sweeping machines and 100 can carriers. Jas. McCartney, Comr. St. Cleaning, 13 Park Row.

JERSEY CITY, N. J.—Henry Byrne has been awarded the contract for cleaning the streets for one year. Jas J. Harrington is said to have submitted a lower bid, and will ask for an injunction.

PHILADELPHIA, PA.—The following bids were received by W. C. Haddock, Dir. Dept. Pub. Wks., Dec. 23, for street cleaning for next year:

Bide Received at Philadelphia, Pa., Dec. 23, 1899, for Street Cleaning for the Year 1900.

Bidder.	Districts 1st.	2d.	3d.	4th.	5th.	6th.	Entire city.
Thomas Parker, 1345 Arch St.	$94,000	$145,000	$50,000	$151,000	$93,000	$31,000	$504,000
David McMahon, P. O. Building	109,000	163,000	53,000	155,000	90,850	32,000	562,000
Edwin H. Vare, Betz Building	94,999	165,000	50,000	160,000	100,000	30,000	595,000
Daniel Dooley, 4831 Lancaster Ave.	110,000	.....	47,100	.....	.....	.....	.....
David Peoples, 2508 Callowhill St.	89,000	152,000	49,000	145,000	91,500	29,000	554,000
John Laughlin & Co., 2214 E. Susquehanna Ave.	.....	144,974	.....	144,947	.....	28,445	.....
James Gallagher	84,000	147,000	.....	.....	.....	.....	.....
Michael O'Rourke, 1107 Walnut St.	90,700	150,000	48,000	140,000	85,000	20,000	505,000

R. P. Bennis, 718 E. Chelten Ave., bid on Dist. 6 at $28,980, and Jas. Curran, 2617 E. William St., on Dist. 4 at $143,718. The following bids were received for removing the garbage from the entire city: American Product Co., Land Title Bldg., present contractors, $398,000; Geo. W. McClintock, $493,000; the National Contracting Co., 211 South 9th St., 1st District, $53,000; 2d District, $57,000; Peoples Bros, 2508 Callowhill Ave., $454,000. The following bids were also received for removing snow: From City Hall pavement, Thos. H. Parks, Hale Bldg.; single loads, 82 cts., double loads $1.22; D. J. McNichol, 28 South Delaware Ave., 80 cts. and $1.18; E. J. Dorney, 50 and 89 cts.; Delaplaine & West, Fidelity Bldg., 65 cts. and $1.23; Edward T. Fullen, 68 cts. and $1.03; M. & J. B. McHugh, Witherspoon Bldg., 70 cts. and $1.10; removing snow from streets and city bridges, Thos. H. Parks, 38 and 48 cts.; Peoples Bros., 78 cts. and $1.15; D. J. McNichol, 80 cts. and $1.18; E. J. Dorney, 59 and 89 cts.; Delaplaine & West, 65 cts. and $1.23; Edw. T. Fullen, 52 and 90 cts.

CLEVELAND, O.—Local papers state that Director of Public Works Rice is in favor of an appropiation of $140,000 for street cleaning, instead of $60,000.

JOLIET, ILL.—H. A. Stevens, Cy. Engr., writes us that the following bids were received Nov. 27 for a crematory: Engle Sanitary & Crematory Co., of Des Moines, Ia., $9,500 and $8,000; Dixon Garbage & Crematory Co., Toledo, $7,810, $14,000 and $14,000; Chas. Kissner & Co., Chicago, $11,709 and $10,479.

TOPEKA, KAN.—A contract for collecting and disposing of the garbage, etc., has been let to the Topeka Crematory Co., on condition of a 60-day trial.

STREETS AND ROADS.

EVERETT, MASS.—The board has appropriated $9,600 for constructing Morris and Hosmer Sts. Address Mayor Hatch.

HAMDEN, CONN.—A. E. Woodruff, Mt. Carmel, writes us that nothing has been done toward purchasing a road roller, stone crusher and sprinkler.

ALBANY, N. Y.—Bids are asked until Dec. 13 for constructing 1½ miles of road in the Tonawanda Indian Reservation, Genesee county, as stated in our advertising columns. J. N. Partridge, Supt. Pub. Wks.——E. A. Bond, State Engr., has let contracts for constructing about 25 miles of state roads, at $161,890, and has received 112 petitions covering about 550 additional miles. He has $44,168 worth of work to let.

BUFFALO, N. Y.—Bids are asked until Dec. 12 for paving portions of two streets. R. G. Parsons, Secy. Bd. Pub. Wks.——The council has approved the paving of Forest Ave. with asphalt.

ROCHESTER, N. Y.—The following street improvements are proposed: Trap rock paving, Baldwin St., $4,150; Lewis St., $13,000; Ontario St., $19,200. Asphalt, Broezel St., $4,700; Colvin St., $19,500; Main St., East, $44,700; Maple St., $15,000; Ontario St., $24,500; Park Ave., $16,500; Ravine Ave. and Aldern Place, $34,000; Joseph Ave., $53,000; Clifford St., $76,500. Brick, Cortlandt St., $5,600; Lewis St., $14,500; Main St., East, $42,000; Park Ave., $15,800; Tonawanda St., $6,400. Block pavement, Clinton St., $14,500; Clifford St., $86,000. Curbs and walks, Cortlandt St., $2,800; Delaware St., $1,700; Driving Park Ave., $7,500. Peter Sheridan, Cy. Clk.

SCHENECTADY, N. Y.—The following contracts have been received by the board for improvements to Blaine St.: Beckwith & Son, $1,104; Kellam & Shaffer, $1,062; John Twomey (accepted), $1,020.

PASSAIC, N. J.—Bids are asked until Dec. 8 for grading and macadamizing Brook Ave. G. W. Lotbyl, County Clk., Paterson.——Bids are asked for sidewalking on Main St. J. H. Parker, J. J. Welsh, R. M. Offord, Street Com.

ALLEGHENY, PA.—Bids are asked until Dec. 11 for grading, paving and curbing several streets. Robt. McAfee, Dir. Dept. Pub. Wks.

SOUTH BOSTON, VA.—The people have voted to issue $10,000 of bonds for street improvements.

ATLANTA, GA.—The city clerk writes us that the Edgewood Ave. improvement will consist of raising the street railway tracks, filling about 400 yards, and paving with asphalt, brick or granite.

OWENSBORO, KY.—W. P. Small, Mayor, writes us that nothing will be done on the proposed street improvements until April.

CINCINNATI, O.—Bids are asked until Dec. 29 for asphalting Bruce Ave. Geo. H. Spellmire, Clk. Bd. Cy. Affairs.

ELYRIA, O.—Bids will soon be asked for macadamizing in Lodi St.

TOLEDO, O.—The question of paving Summit Ave. is being discussed.

COLUMBUS, IND.—The county commissioners have awarded the following contracts: Building roads in sections 1, 2, 3 and 4 in Union, to Henry Whittington, at $4,742; for building roads in section 5, in Union, to Davis & Folger, at $3,350, and for building roads in sections 1 and 2, in Nineveh, to Davis & Folger, at $6,195.

DETROIT, MICH.—A committee will soon be appointed to prepare plans, etc., for a new speedway.

KALAMAZOO, MICH.—It is stated that the Kalamazoo Beet Sugar Co. will build a macadam road from its factory to the Colony farm.

AURORA, ILL.—The question of paving several streets with asphalt is being discussed.

CHICAGO, ILL.—John Ericson, Cy. Engr., writes us that nothing has been done regarding the drive south of the river. The drive north is about completed.

WILMETTE, ILL.—Bids are asked until Dec. 14 for paving, etc., on portions of several streets. J. L. McKittrick, C. R. Letham, Walter Foraday, Bd. Improvements.

MILWAUKEE, WIS.—The supervisors are reported to be opposed to purchasing the Watertown Plank Road.

SUPERIOR, WIS.—H. W. Dietrich, Mayor, has submitted to the council data, etc., of the comparative costs of paving.

ST. PAUL, MINN.—Oscar Claussen, Cy. Engr., writes us that contracts for paving several streets with brick will be let in the latter part of December.

SOUTH OMAHA, NEB.—It is stated that the board contemplates having considerable paving done in the spring.

ST. JOSEPH, MO.—J. R. Rackliffe, Cy. Engr., will not advertise for bids for paving Sylvania St. until next spring.

KANSAS CITY, MO.—Bids are asked until Dec. 12 for the following street improvements: Asphalt pavement on portions of four streets, plank sidewalks on portions of 13 streets, curbing a portion of one street; constructing brick sidewalk on portions of three streets, block sidewalk on a portion of one street, and stone sidewalk on portions of two streets. Henry A. Wise, Cy. Engr.

SOUTH ST. JOSEPH, MO.—The county is considering the question of paying half the cost of macadamizing Illinois Ave.

GALVESTON, TEX.—Bids are asked until Dec. 11 for grading and ditching about 10½ miles of county roads. G. H. Law, Jr., County Clk.

SPOKANE, WASH.—The Great Northern Ry. Co. has let the contract for grading the new roadbed west of the Spokane River to Grant, Smith & Co., Chicago. J. J. Hill, Pres., St. Paul, Minn.

FRESNO, CAL.—The trustees have passed a resolution providing for paving portions of several streets. J. B. Johnson, Cy. Clk.

NAPA, CAL.—The city proposes to macadamize Casistoga Ave. O. H. Buckman, Supt. Streets.

OAKLAND, CAL.—R. M. Clement, Cy. Engr., writes us that only one block will be macadamized, to cost $1,725, and that no heavy work will be done for some time.

RIVERSIDE, CAL.—The trustees have passed an ordinance providing for macadamizing 6th St. C. R. Stibbens, Cy. Clk.

HAMILTON, ONT.—The Hamilton Improvement Society, R. T. Steele, Pres., has passed a resolution in favor of the proposed $150,000 bond issue for street improvements.

MANUFACTURING PLANTS.

FAIRFIELD, ME.—The Somerset Fibre Co. is reported to have let the contract for improving its plant at about $150,000, to Davis & Grady, Bangor. Six buildings will be erected, and a power canal 60 ft. wide and 400 ft. long will be built on the island. Contracts for the machinery are reported to have been let.

FALL RIVER, MASS.—Saml. M. Green, Mech. Engr. of the American Thread Co., Holyoke, writes us that no contracts have been let for the company's mill, which will be 482 ft. long, 154 ft. wide, 5 stories high with basement, and that the plans are not yet completed. The company will require a 2,800-HP. upright engine, and 3,000 electric lights.

LOWELL, MASS.—Geo. L. Hooper, Pres. and Gen. Mgr. of the Hooper Knitting Co., writes us that the company will need the usual equipment for a hosiery factory and dye house. Chas. Grinn, Arch., 245 Market St., Lowell.

NATICK, MASS.—We are informed that Nutt & Pratt, shoe manufacturers, will require one 50-HP. high-speed, self-contained automatic engine.

LYONS, N. Y.—Wm. Buchheit, New York, representing New York capitalists, has made arrangements for the establishment of a beet sugar making plant in this town, with a capacity of 400 tons. The plant, which will cost about $500,000, will require the product of 4,000 which have been contracted for five years. The company will be capitalized at $1,000,000, and will begin the construction in January.

KENSINGTON, PA.—Local papers state that Wm. Steele & Son are preparing plans for alterations and additions to the Arrott Steam Power Mills, at Coral and Taylor Sts. A 5-story picker house will be built and four stories will be added to the present mill.

PITTSBURG, PA.—Fire damaged the machine shop of the Hydraulic Machine Co., to the extent of $20,000. The plant is located at 58th and Harrison Sts.

GREENVILLE, S. C.—F. J. Westervelt, of the Brandon Mills, writes us that the contract for the buildings, which has ben let to J. W. Cagle, Greenville, will include main mill, engine and boiler house, warehouses, etc. Lockwood, Green & Co., Arch., 151 Devonshire St., Boston, Mass.; J. H. Morgan, Pres.

ALBANY, GA.—Bids are wanted by Harris Zucher, Albany, for a 25-HP. boiler and a 20-HP. engine. We are informed that the building will be erected by local contractors.

CAMILLA, GA.—T. R. Bennett writes us that no definite steps will be taken this year toward the construction of the proposed mill.

SELMA, ALA.—Bids are asked until Dec. 10 for constructing a two-story brick extension, about 79 x 152 ft., to a cotton mill, a frame warehouse, 50 x 70 ft., and about 30 two or three room frame cottages. Separate bids required. R. H. Mabry, Secy. and Treas.

MOOREHEAD, MISS.—C. H. Pond writes us that the contract for the building of the Moorehead Cotton Mills, 200 ft. long, 76 ft. wide and 40 ft. high, has been let, and that the company will require a 300-HP. Corliss electric plant and machinery. Chas. A. M. Praray & Co., Archs., 832 Banigan Bldg., Providence, R. I.

TUPELO, MISS.—N. D. Anderson, Mayor, writes us that the money has been subscribed and a charter applied for the proposed cotton mill, which will cost about $125,000. Contracts have not yet been let. Work will commence next year.

HOUMA, LA.—It is reported that the Houma Lighting & Ice Mfg. Co. proposes to increase the capacity of its ice factory by installing a 15-ton machine.

SHREVEPORT, LA.—Reports state that plans will soon be completed for the construction of the proposed Hargrove Cotton Mills, which is to be equipped with 5,000 spindles and 150 looms, and 400-HP. engine and boiler, etc. Contracts will be let at once.

BRISTOL, TENN.—Local papers state that S. H. Egoff, Gen. Mgr., and Royal B. Embree, of the Columbia Paper Co., are in this town to begin the construction of the proposed $300,000 plant.

CHATTANOOGA, TENN.—The United States Cast-Iron Pipe Co. is reported to have decided to discontinue the manufacture of cast-iron piping at the old Giles Pipe Works at Whiteside and Henry Sts., and will remodel the buildings and supply with new machinery, including turn-

ing lathes, cranes, etc. The contract for the lumber has been let to Willingham & Co., and work will begin at once. Adams & Schneider have received the contract for the reconstruction; estimated cost, $25,000.

WARREN, O.—Press reports state that the Warren Electric & Specialty Co. has let contracts for a large extension to its plant.

INDIANAPOLIS, IND.—It is reported that the Premier Steel Co. has sold its plant to D. P. Erwin, Indianapolis; Crawford Fairbanks, Terre Haute, and others, who will use it for the manufacture of tinplate. The new company will spend about $1,000,000 in improving the plant.

WABASH, IND.—An artificial ice plant will soon be constructed by a company recently incorporated, of which Chas. Flinn is secretary.

WOODSTOCK, MICH.—The Osborn Co., Engr., Osborn Bldg., Cleveland, O., will design and superintend the construction of the Peninsula Portland Cement Co.'s plant at Woodstock. Contracts for the entire plant will be let as soon as the plans and specifications are completed.

SEATTLE, WASH.—Local papers state that B. A. Seaborg, Fairhaven, will rebuild his cannery, which was recently burned at a loss of $115,000. The plant will have a capacity of 3,000 cases a day, and will be built on the site of the former one.

ASTORIA, ORE.—S. T. Kelsey, Jr., of the Peerless Flouring Mill, is said to be arranging for the purchase of machinery for the plant, which will include two fireproof steel grain elevators, manufactured by the Steel Storage & Elevator Co., Buffalo, N. Y. The capacity of the mill will be 1,000 bbls. a day.

SYDNEY, N. S.—It is reported that a syndicate has been formed to erect a steel plant at Sydney mines. The company has secured option of $1,500,000 on the coal areas of the General Mining Association. Engineers are making surveys for opening new shafts. President Whitney, of the Dominion Iron & Steel Co., has outlined the following expenditures to be made by the company during the next two years for the construction of its plant, which has been started: Blast furnaces, $2,500,000; steel mill, $1,500,000; coke ovens, $1,250,000; docks, foundations, etc., $1,000,000. The blast furnaces projected will have a daily capacity of about 1,000 tons, and the steel works alone will give employment to about 1,000 men.

MONTEREY, MEX.—We are informed that bids are wanted at once by the Compania Minera y Afinadora, Monterey, for the equipment of a lead refinery, consisting of generators, motors, air compressors, furnace castings, wrought iron and steel work for same, floor castings, etc. The contract for the buildings, one, which will be 158 × 119 ft., two stories high, and the other 15 × 140 ft., one story high, both of steel, and lighted by electricity, have been let to the Pittsburg Bridge Co., Pittsburg, Pa. A. F. Schneider, Engr., 77 Pine St., New York.

WELLINGTON, ENG.—G. H. Milnes & Co., Birkenhead, Eng., it is reported, will soon begin the construction of car works at Hadley, near Wellington, to cost about $500,000.

NAPLES, ITALY.—Press reports state that Chas. P. E. Schneider, of Le Creusot, France; the Floris Co., of Palermo, Italy, and the Armstrongs, of Naples, propose to build a shipyard, gun and ammunition factory, a steel plate mill and an iron pipe mill. A company will be formed with a capital stock of about $12,000,000.

MARIPOL, RUSSIA.—Julian Kennedy, 323 Fourth Ave., Pittsburg, Pa., is reported as preparing plans for a slabbing mill for the Maripol Mining & Metallurgical Co. It is said that contracts amounting to about $200,000 have already been placed.

GAS PLANTS.

HARTFORD, CONN.—Gen. J. P. Harbison has submitted an estimate to the board for lighting the capitol, which is said to be considerably less than the cost of the proposed electric light plant.

JERSEY CITY, N. J.—The Hudson County Gas Co. will erect a plant on a piece of ground, recently purchased, on the Hackensack meadows, according to reports.

COATESVILLE, PA.—It is stated that the Consolidated Gas Co., of Philadelphia, has purchased the plant of the Coatesville Gas Co. and will enlarge it.

JEFFERSON, KY.—Marcus Sulzer, of Madison, is interested in the plan to pipe natural gas to this city for heating purposes.

COVINGTON, KY.—Bids are asked until Dec. 18 for lighting the city for a term of 20 years. An exclusive franchise to lay and maintain gas pipes will be granted. Not less than 20 miles of pipes shall be laid, and are to be ready for use by Oct. 28, 1902. The gas must be manufactured in Covington; bond, $100,000. Jos. L. Rhinock, Mayor; Theo. von Hoene, Cy. Clk.

LYNCHBURG, VA.—R. D. Apperson, Staunton, writes us that nothing has been done regarding the plant, as no franchise has been granted.

NEW COMPANIES.—Butte Gas Light & Coke Co., Butte, Mont.; $300,000; A. J. Davis, W. L. Mayer, W. L. Place. Rensselaer Lighting Co., Rensselaer, N. Y.; $50,000; J. T. Kirk, Brooklyn, L. P. Lampmann, Coxsackie, N. Y. Point Gas Co., Shousetown, Pa.; $1,600 paid in $160; A. S. Lawson, Treas., E. E. Laughner, Shousetown.

MISCELLANEOUS CONTRACTS.

FLUME.—Fresno, Cal.—Bids are asked until Dec. 11 for constructing a flume. Harris & Hubbard, First Nat'l Bank Bldg.

LUMBER.—Crow Agency, Mont.—Bids are asked for manufacturing about 500,000 ft. lumber. J. E. Edwards, U. S. Indian Agent.

OVERHEAD CRANE.—Ottawa, Ont.—John Galt, Cy. Engr., is reported to be in favor of building an overhead crane at the pump house.

DRY-DOCK.—San Francisco, Cal.—H. C. Holmes, Ch. Engr. State Bd. Harbor Comrs., Sacramento, is preparing plans for a dry-dock, to cost about $500,000.

TUNNEL.—Pittsburg, Pa.—The Pittsburg & Lake Erie R. R. is reported to have let, on Nov. 28, the contract for constructing a tunnel under Smithfield St.

MACHINERY.—Washington, D. C.—Bids are asked until Dec. 11 for furnishing machinery at the U. S. Census Printing Office. W. R. Merriam, Dir. Census.

BREAKWATER.—Port Elgin, Ont.—Bids are asked until Dec. 19 for extending the breakwater at Port Elgin; check, $500. E. F. E. Roy, Secy. Bd. Pub. Wks., Ottawa.

TIMBER.—Cape Town, Cape Colony.—Bids are asked by the controller and auditor-general, Cape Town, until Jan. 11 for furnishing lumber for the railway department.

CASTING AND TOOLS.—Washington, D. C.—Bids are asked until Dec. 12 for furnishing a quantity of steel castings and tools at the navy yard. A. S. Kenny, Paymaster-General, U. S. N.

CANAL.—Ottawa, Ont.—Bids are asked until Dec. 30 for constructing about nine miles of Trent canal between Trenton and Frankford. L. K. Jones, Secy. Dept. Rys.

DOCKS.—New York, N. Y.—The Commissioners of Docks and Ferries have purchased land on South St., between Jefferson and Clinton Sts., E. R., for additional docks. Ch. Engr. Bensal may be addressed.

STRIPPING.—Minnesota.—The Drake & Stratton Co., 7 Wood St., Pittsburg, Pa., has the contract for stripping about 2,500,000 yds. of gravel and stone at the Mesaba range, for the Fayal Mining Co.

CEMENT.—St. Paul, Minn.—Bids are asked until Jan. 2 for delivering a quantity of cement f. o. b. cars. warehouse, as stated in our advertising columns. Maj. F. V. Abbot, U. S. Engr., Globe Bldg.

CHANNEL.—Texas City, Tex.—Col. C. S. Richie, U. S. Engr., has let the contract for constructing the Texas City channel to the Blake & Stratton Co., 14 South Broad St., Philadelphia, Pa., at about $250,000.

PIER EXTENSION.—St. Joseph, Mich.—Bids are asked until Dec. 30 for erecting a pier extension, as stated in our advertising columns. Capt. Chester Harding, U. S. Engr., 57 Park St., Grand Rapids, Mich.

FIRE HOSE.—New York.—Bids are asked until Dec. 20 for furnishing 5,000 ft. 2½-in. cotton rubber lined fire hose. Bids were asked for Dec. 4, but none were received. J. J. Scannell, Fire Comr., 157 E. 67th St.

AIR SHAFT.—Henry, W. Va.—Bids are asked by the Davis Coal & Coke Co., Henry, for sinking an air shaft, 10 × 20 ft. and about 400 ft. deep, as stated in our advertising columns. C. H. Latrobe, Consult. Engr., Baltimore.

NAVAL SUPPLIES.—San Francisco, Cal.—Bids are asked until Dec. 12 for furnishing a quantity of nuts, rivets, wire, rolled zinc, sheet iron, bar iron, rivets steel, steel billets, steel plates, steel shapes, brass tubing, electric motors, lumber, etc., at the Mare Island navy yard. A. S. Kenny, Paymaster-General, U. S. N.

TUNNEL.—West Virginia.—Bids are asked until Dec. 30 for constructing two tunnels on the line of the Coal & Iron Ry. in West Virginia, one to be about 1,600 ft. long and the other 1,000 ft. long, as stated in our advertising columns. This railway company will also let a contract in the spring for about 43 miles of railway extension, involving some heavy work. C. H. Latrobe, Consult. Engr., Room 813, Merchants' Bank Bldg., Baltimore, Md.

FIRE ENGINES AND HOSE.—New York, N. Y.—The following bids were received by fire department Dec. 4: American Fire Engine Co., Seneca Falls, N. Y., 1 2d size, fire engine, $4,500; 1 3d size, $4,200; La France Steam Fire Engine Co., Elmira, N. Y., 1 2d size, $4,500; 1 3d size, $4,200, 1 large size, 85 ft. extension hook and ladder, $3,750; Fabric Fire Hose Co., 68 Murray St., 2,500 ft. 2½-in., $2,230; Voorhees Mfg. Co., Jersey City, 2,000 ft. 3½-in., $4,000; Akron Rubber Co., Akron, O., 1,500 ft. 3-in., $2,250.

MACHINERY & TOOLS.—Boston, Mass.—Bids are asked until Dec. 12 for furnishing 2 36-in. band-saw machines, 3 improved adjustable iron saw tables, 1 combination saw table, 2 improved jointing and facing machines, 2 single surface planers, 1 upright molding machine, 1 combination boring machine, 1 sand belt machine, 1 heavy upright boring machine, 1 band-saw filing and slitting machine, 1 improved engine lathe, 1 elastic rotary blow riveting machine, 1 wood-turning lathe, 1 improved sliding head drill, 1 reverse block turning lathe, 1 iron monger for shearing off bolts and strips of plating, etc. A. S. Kenny, Paymaster-General, U. S. N., Washington, D. C.

CONTRACT PRICES.

REPAIRING SEWER.—New York, N. Y.—The department of sewers received the following bids Nov. 29, 1899, for repairing wooden barrel sewer, 165 ft. long and 3 ft. in diameter, under pier 8, N. R.: John D. Walsh, $11.97, time 60 days; James Du Bois, $11,24, 50 days; N. Y. Sewer Construction Co., $11.45, 10 days; John Gillies Co., $11, 10 days; Bernard Rolf, 39 Cortlandt St., $10.33, 8 days.

PAVING.—McConnelsville, O.—We are informed that the following bids were received Nov. 15 for brick paving in Center St.; Chas. F. Sturtevant, Engr., 321 North Main St., St. Louis, Mo.; L. J. Weber, Mayor:

Bids Received at McConnelsville, O., Nov. 15, 1899, for Brick Paving in Center St.

Items and quantites.		W. D. Dodge, Buffalo, N. Y.	Hutchens Bros., McConnelsville, O.	John C. Bolen, Zanesville, (accepted).	E. M. Stanbery, McConnelsville, O.	Adams Bros., Zanesville, O.
Earth excavation	8,600 cu. yds.	$0.23½	$0.21	$0.16	$0.20	$0.20
Removing old gravel	500 " "	.25	.30	.15	.15	.70
Placing new gravel	1,600 " "	.64	.55	.45	.45	.70
Concrete curbing, 6 × 20-in.	4,100 lin. ft.	.45	.38	.33	.33	.35
Sand cushions, 1½ ins.	12,900 sq. yds.	.04	.03	.03	.03	.03
Sand filler	12,900 " "	.02	.02	.02	.01½	.02
Laying vitrified block	12,900 " "	.06	.08	.07	.05	.10
Vitrified block delivered on sidewalk	12,900 " "					
Halwood		.77	.65	.66	.66	.69
Townsend		.82	.65	...	...	.80
Harris		.83	.65	...	...	.75
Lane		...	.65	.70	...	.70
Total		$16,496	$14,456	$15,386	$13,608	$15,461
Berea curbing, 6 × 20-in.		$0.45	$0.42	$0.39	$0.41	$0.57
Cedar Run curbing, 6 × 20-in.		...	.32	.33	.33	.34
Removing old curbing		.17	.19	.20	.20	.14
Concrete, 6 × 3 × 3 ft., a sq. yd.		.30	.40	.50	.50	.45
Portland cement filler, a sq. yd.		.05	.20	.10	.10	.10
Concrete a cu. yd.		2.50	3.00	4.50	4.50	5.00

DREDGING.—Harlem River, N. Y.—We are informed that the following bids were received Nov. 27, 1899, by Lt.-Col. W. H. H. Benyaurd, U.S.Engr., Army Bldg., New York, for 150,000 cu. yds. of dredging in the Harlem River, N. Y., as advertised in Engineering News: all local bidders except P. S. Ross: Henry Du Bois Sons, 119 South St., 14 9-10 cts. a cu. yd., scow measurement; Joseph Oliver Stokes, 80 and 82 Reade St., 17 cts.; Morris & Cumings Dredging Co., 17 State St., 12 9-11 cts.; R. G. Packard, 130 Pearl St., 12 2-10 cts.; the W. H. Beard Dredging Co., 13 William St., 12 9-10 cts.; P. Sanford Ross, 277 Washington St., Jersey City, N. J., 10 4-10 cts.

CANAL WORK.—Sheffield, Ill.—The following bids were received by Maj. W. L. Marshall, U. S. Engr., Chicago, Ill., Nov. 24, 1899, for constructing about three miles of the trunk of the eastern section of the Illinois & Mississippi Canal, near Sheffield:

Bidder.	Earthwork: Miles 26, 113,484 cu. yds.	27, 133,907 cu. yds.	28, 116,247 cu. yds.	Total.
Katz & Callahan, Omaha	$0.11¾	$0.11¾	$0.11¾	$42,182
J. J. McCaughey, Summit, Ill.	.12⅛	.21⅝	.21½	67,835
Pound Const'n Co., Chicago	.12	.20	.14	56,674
G. R. Bennett, Chicago	.09⅛	.15	.11	43,654

REMOVING ROCK AND DREDGING.—New Jersey.—Col. J. W. Barlow, U. S. Engr., Army Bldg., Whitehall St., New York, received the following bids Dec. 1. for removing rock and dredging in the Raritan River and the Passaic River; (1) James McSpirit & Sons, 122 Wayne St., Jersey City; (2) P. Sanford Ross, Inc., 277 Washington St., Jersey City; (3) J. Oliver Stokes, 80-82 Reade St., New York:

		1.	2.	3.
Rock removal, Raritan River:				
Fixed shale rock	4,100 cu. yds.	$2.72	$4.00	$3.96
Loose rock	120 " "	1.00	1.50	1.08
Gravel	900 " "	.90	.50	.27
Total		*$12,093	$17,030	$16,080
Rock removal and dredging, Passaic River: Above Greenwood Lake R. R. bridge:				
Gravel	5,500 cu. yds.	$0.87	$1.00	$0.36
Boulders	150 " "	5.00	5.00	16.20
Ledge rock	100 " "	8.00	10.00	17.33
Below same bridge:				
Material	150 " "	.87	1.00	.27
Total		$6,466	$7,400	*$6,184

*Recommended for acceptance.

ENGINEERING MATERIAL PRICES

TRACK MATERIAL—
Chicago—Steel fish-plates, 2.50 cts.; spikes, 2.75 to 2.85 cts.; track bolts, 3.95 to 4 cts.
Pittsburg—Steel fish-plates, 2.50 to 2.60 cts.; spikes, 2.50 cts.; track bolts, 2.60 to 2.85 cts.

RAILS, STEEL—
New York, new, $35 to $37; old iron, $23.50 to $24; old steel, $18.50 to $20.
Chicago, new, $35 to $38; old iron, $27 to $28; old steel, $17 to $18.
Pittsburg, new, $35 to $37; old iron, $26 to $27; old steel, $21 to $22.

STRUCTURAL STEEL—
New York—Beams, 2.40 to 2.50 cts.; channels, 2.40 to 2.50 cts.; tees, 2.40 to 2.45 cts.; angles, 2.40 to 2.45 cts.
Chicago—Beams, 2.40 cts.; channels, 2.40 cts.; tees, 2.45 cts.; angles, 2.50 cts.
Pittsburg—Beams, 2.25 to 2.35 cts.; channels, 2.30 cts.; tees, 2.3 cts.; angles, 2.25 cts,; zees, 2.25 cts.

PLATES AND SHEETS—
New York—Universal mill plates, 2.65 to 2.75 cts.; tank, 2.80 to 3.00 cts.; shell, 3.00 to 3.10 cts.; flange, 3.30 to 3.40 cts.; firebox, 3.40 to 3.55 cts.
Chicago—Universal mill plates, 2.80 to 3.00 cts.; tank, 2.90 to 3.05 cts.; shell, 3.10 cts.; flange, 3.15 to 3.25 cts.; firebox, 4.00 to 5.5 cts.; sheets, 2.95 to 3.05 cts.
Pittsburg—Universal mill plates, 2.50 to 2.75 cts.; tank, 2.40 to 2.60 cts.; shell, 2.60 to 2.70 cts.; flange, 2.70 to 2.80 cts.; sheets, 2.95 to 3.00 cts.

MERCHANT STEEL—
Machinery, per lb., 2.95 to 3.05 cts.

IRON—
Pig iron:
New York—No. 1, $25; No. 2, $24.
Chicago—No. 1, $24 to $25; No. 2, $23 to $24.
Pittsburg—No. 1, $24 to $25; No. 2, $23.
Bar iron:
Pittsburg—2.15 to 2.25 cts.

LUMBER—
New York:
Hemlock timber, 20 ft. and under, per M, $16.00.
Piling, Eastern spruce, 35 to 40 ft., 30 to 40% 12-in. butts, 5 cts.
Yellow pine, random cargoes, $23 to $26.
North Carolina pine, $3.00 to $4.00 advance over Norfolk rates.
San Francisco:
Oregon pine, per M, $16 to $18.
Redwood, per M, $18 to $20.
Redwood tank stock, up to 10 ft., $22.

GENERAL MATERIALS—
Lead, New York, 4.60 to 4.80 cts.
Solder, per lb., 14½ to 15 cts.
Spelter, per lb., 4.40 to 4.50 cts.
Copper ingots, 16.75 to 17.00 cts.

INDUSTRIAL NOTES.

THE FERRACUTE MACHINE CO., Bridgeton, N. J., will soon make shipments of its presses and dies to France and Germany, and reports several orders in hand from Japan.

THE CARSON TRENCH MACHINE CO., Boston, has removed its New York office from 9 Dey St., to 123 Liberty St. John J. Trainor continues as New York representative.

THE CONTINENTAL FILTER CO., 35 Wall St., New York, has been awarded the contract for installing a filter plant at Stamford, N. Y., for the Stamford Water-Works Co., to purify the water supply of the town.

MANUFACTURERS and supply companies are requested to send catalogues of machine tools, railway equipments, electrical apparatus, and miscellaneous machinery to the Richmond Locomotive & Machine Works, Richmond, Va.

FRASER & CHALMERS, 568 Washtenaw Ave., Chicago, have sold one of their adjustable Comet G crushers to the Momence Stone Co., Momence, Ill. (owned by Chicago & Eastern Illinois R. R.), after a severe competition with other gyratory crusher manufacturers. This crusher is the largest size built, and has a capacity of 200 tons an hour crushed to a 2½-in. ring.

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